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GEOGRAPHY or FAUNISTIC.

General.

Catalogue of Diptera Vols 4 & 5; Kertész, 1509.

Catalogue of Hemiptera Vol. 1; Kirkaldy, 1552.

Die geographische Verbreitung der Tiere und die geologischen Perioden; Klapalek, 1560.

Ueber boreal-alpine Verbreitung von Tieren und eine unrichtige Behauptung in R. E. Scharffs, European Animals"; Kolbe, 1597.

Der meteorologische Einfluss auf Artenverbreitung und Rassenbildung bei den Insekten; Meyer, 1896.

Die Pendulationstheorie, Verbreitung der Insekten; Schröder, 2605.

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In the next following cases localities have been omitted by the bureau and I have not been able to supply them:—

No indication of locality has been sent by the French bureau for the spp. n. of Pic Naturaliste 31 pp. 19-34; also in the cases of many other species.

No locality sent by bureau—Planet, 2234; Pseudolucanus sp. n.

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Arctic & Antarctic.

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Enderlein, 830; Die biologische Bedeutung der Antarktis und ihrer Faunengebiete.

Enderlein, 831; Die Insekten des antarktischen Gebietes, 18 spp. n.

Nielsen, 2052; The Insects of East Greenland, Dipt. Acalypt. 5 spp. n.

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Cap Verde islands. Coleoptera. Clavareau, 516; Lema 2 spp. n.

Hawaiian islands. Hymenoptera. Wheeler, 3173; Cerapachys sp. n.: Giffard, 1097; Odynerus.—Lepidoptera, Hampson, 1244; Euxoa sp. n.: Swezey, 2882; generic synopsis: Swezey, Omiodes sp. n. 2881 & 2883.—Heteroptera. Kirkaldy, 1545; Nabidae revision, spp. n.: Kirkaldy, 1549; Oechalia sp. n.: Homoptera, Kirkaldy, 1547; Conspectus of Fulgoridae, spp. n.: Coccidae, Kotinsky, 1608; Takahashia japonica.—Orthoptera, Borelli, 292; Anisolabis 2 spp. n.

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Solomon islds. Coleoptera. Kerremans, 1502; Paracupta sp. n.—Lepidoptera. Warren, 3106; Geometridae spp. n., Dysphania, Anisogamia.

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New Caledonia. Coleoptera: Fauvel, 862; 3 spp. n., Scaphodius and Ditropidus: Horn, 1367; Vata sp. n.:

Leveillé, 1725; Leperina sp. n.—Hymenoptera. Vachal, 2988; 3 spp. n., Megalyra, Poricon and Exothecus.—Diptera. Froggatt, 987; Dacus sp. n.—Heteroptera. Bergroth, 198; Tropidothorax sp. n.—Thysanoptera. Bagnall, 105; Docessissophothrips sp. n.

New Zealand Group. Insecta. Hudson, 1893; Subantarcticislands general; 4 spp. n. 1394.—Coleoptera: Brown, 368; Subantarctic islands, many spp. n.: Broun, 366; Sphaeridiidae to Oedemeridae 44 spp. n.: Broun, 367; Curculionidae 50 spp. n., Anthribus 2 spp. n., Cossonidae 6 spp. n., Cerambycidae 7 spp. n., Aemona, Somatidia and Hybolasius, Chrysomelidae 10 spp. n. : Broun, 370; Chathamislands list 3 spp. n., Anchomenus, Mitophyllus and Cilibe: Broun, 371; Cossonidae spp. n., genn. n.: Kerremans, 1502; Acmaeodera sp. n.: Shetlands. Möllenkamp, 1928; Lucanidae sp. n. - Hymenoptera: Cockerell, 534; Prosopis sp. n.: Cameron, 461; Auckland isds. 4 spp. n., Ichneumonidae and Braconidae. - Lepidoptera: Anon., 51, Hand-list pts. i & ii: Hamilton, 1239; Porina sp. n.: Hudson, 1394; Subantarctic islands 4 spp. n.—Meyrick, 1906; Subantarctic islands 8 spp. n. : Meyrick, 1907; 22 spp. n., Geometridae, Pyralidae, Pterophoridae, Tortricidae and Tineidae.—Diptera. Tineidae.—Diptera. Lamb, 1665; Subantarctic islands, list, genn. & spp. n.—Hemiptera: Reuter, 2398; Ony-chiliphora und Lygus 2 spp. n.: Kirkaldy, 1551; annotated catalogue.— Homoptera. Kirkaldy, 1548; Cenchrea sp. n.—Perlidae. Enderlein, Auckland islands 814; gen. and sp. n.—Collem-Carpenter, 470; Subantarctic islands Triacanthella sp. n.

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Juan Fernandez. Coleoptera. Champion, 488; Cossonidae novelties.

Palaearctic Region.

(a) Collectively.

Coleoptera.

No localities have been sent by the French bureau tor the species described in Echange 25.

Barovsky, 143; Palaearktisches Asien, Lithophilus 6 spp. nn. (Russ.).

Bernhauer, 212; Leptusa 4 spp. n.

Desbrochers, 684; Curculionides 24
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Desbrochers des Loges, 686; Trois genres et quatre espèces de Curculionides.

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palus sp. n.

Fleischer, 902; Anaspis, 3 spp. n.

Formánek, 946; Dobrudscha Brachysomus sp. n., Balearen Trachyphloeus sp. n.

Formánek, 947; Nastus Revision, 11 spp. n.

Jacobson, 1414 & 1417; Käfer Westeuropas u. Russlands (Russ.).

Poppius, 2248; Micralymma.

Reitter, 2361; 8 spp. n. Leistus, gen. n. Scaritinarum, Anthobium, Choleva, Catops, Athous, Longitarsus and Otiorrhynchus.

Reitter, 2356; Persia Rhizotrogus 2 spp. n., Marocco Ancxia sp. n.

Reitter, 2377; Die Käfer des Deutschen [und Palaearctic] Reiches.

Reitter, 2364; 6 spp. n., Scarites, Epuraea, Saprinus, Leucohimatium, and Cerocoma.

Reitter, 2363; Scarabaeidae 11 spp. n.. Reitter, 2366; Prosodes 15 spp. n., many subgenn. n.

Reitter, 2368; 13 spp. n., Edaphus, Heterostomus, Mesothes, Otiorrhynchus, Plinthus, Cryphiphorus, Trigonoscelis, Tenebrionidae 2 genn. n. and Tryptera.

Reitter, 2370; Thorictus 2 spp. n., Mesopotamia and Transcaucasus.

Reitter, 2377; numerous spp. n.

Sack, 2516; Corsica, Cyprus, Persia, Pamir, Bombyliidae 10 spp. n., genn. n.

Semenov, 2660; Fundortsangaben.

Stierlin, 2816; Sitones 3 spp. n., Cathormiocerus 3 spp. n.

Suvorov, 2871; Chingan, Mongolia, Neodorcadion 5 spp. n.

Strepsiptera,

Pierce, 2224; spp. & genn. n.

Hymenoptera.

Mongolia, China occ., Tibet, Ichneumonidae spp. n. vide Asia.

Emery, 810; Revision of Ponerinae.

Mocsáry, 1926; Siberia or. and W. Asia Tenthredinidae many spp. n.

Strand, 2821; Halictus, 36 spp. n.

Lepidoptera.

Gillmer Ent. Rec. 21 pp. 259-261 & 286; recently described forms.

Krulikovsky, 1630; 4 spp. n., Hadena, Melissoblaptes, Choreutis and Gracilaria.

Lucas, 1750; France et Algérie, Pyralidae 6 spp. n.

Moltrecht & Kon, 1932; Der ostpaläarktischen, Beitrag.

(Neuburger, 2034; Unbekannte Coliasa barten.)

Pagenstecher, 2121; Verbreitungsbezirke. und die Lokalformen von Parnassius apollo.

Rebel, 2325; Algier Euplexia sp. n. and Kärnten Gelechia sp. n.

Sinegub, 2721; Bestimmungstabellen f. d. russischen Schmetterlinge (Russ.).

Neuroptera.

Navás, 2012; Dilarini monograph, 6 spp. n.

Weele, 3137; Korea Parachauliodes gen. n. Neochauliodes gen. n.

Diptera.

Bezzi, 230; Empis 6 spp. n.

Lichtwardt, 1727; Mediterranean and W. Asia Nemestrinidae 4 spp. n.

Verrall, 3020; Palacarctic Brachy-cera Catalogue.

Hemiptera.

Oshanin, 2105; Verzeichnis der paläarktischen Hemipteren.

Pic, 2190; Habitats de quelques hémiptères.

Psocidae.

Enderlein, 812; 2 spp. n.

Odonata.

Förster, 921; N.E. Africa and West Asia.

(b) Europe, collectively.

Insecta, collectively.

Kieffer, 1518; insectes gallicoles, many spp. n.

Coleoptera.

Bernhauer, 209; Sipalia 3. spp. n.

Desbrochers, 683; Apion 9 spp. n.

Lokay, 1743; Liosoma, sp. n.

Netolitzky, 2033; Höhlen von Steiermark und Dalmatien.

Reitter, 2372; Tableau des Harpalini trad. par Carret.

Hymenoptera.

Kieffer, 1516; Proctotrypidae 19 spp. n.

Kieffer, 1523; Scelionidae 5 spp. n.

Lepidoptera.

Galvagni, 1056; Austria, Dalmatia, Adriatic islands, novelties, Semasia sp. n.

Kronc, 1626; Alps and Dalmatia Tineidae 3 spp. n.

Diptera.

Becker, 176; Livland and Corsica Tetanops 2 spp. n.

Villeneuve, 3036; Phlebotomus pappatasi.

Aphaniptera.

Rothschild, 2472; Switzerland and Basses Alpes Ctenopsyllus 2 spp. n.

Hemiptera.

Horvath, 1372; Graphosoma d'Europe, Creta sp. n.

Sule, 2855; Psylla sp. n.

Sulc, 2856; Katalog der Psylla-arten (Böhmisch) 2 spp. n.

Orthoptera.

Burr, 412; West Europe synopsis continued.

Wünn, 3208; Mitteleuropa eingeschleppte Höhlenheuschrecke.

Zacher, 3218; Die Nordgrenze des Verbreitungsgebietes der Mantodea in Europa.

c) North Europe and Siberia. Iceland vide Insular.

Insecta, collectively.

Aurivillius, 70; Swedish Formicidae (Swedish).

Bengtsson, 193; Central Sweden Entomological excursion in (Swedish).

Jacobson, 1416; Transbaïcalia.

Poppius, 2264; Verbreitung Meeres-Küsten lebenden Coleopteren und Hemipteren in Fennoscandia.

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Sahlberg, 2520; Amasis amoena in Finland.

Schneider, 2581; Arktisches Norwegen Hymenoptera aculeata.

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Forsius, 952; Macrolepidopterfauna des südlichen Finlands.

Luther, 1771; Acherontia atropos auf dem Leuchtschiff Aransgrund im Finnischen Meerbusen.

Meinhardt, 1864; Gouv. Jenisseisk, Heterocera (Russ.).

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Wahlgren, 3074; Butterflies from the oak-region of Värmland, Sweden.

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Braunton, long list; de la Garde pp. 86-88 Ent. Mag. 45.

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Scotland, Nethy Bridge, Cryptocephalus aureolus; Ethel Maitland-

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Nethy Bridge, Orthoperus mundus and Ep. immunda; Bagnall p. 14 Ent. Mag. 45.

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East Sussex, list; Raven pp. 237-239 Entomologist 42.

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Wicken Fen, Chrysophunus dispar introduced; Verrall p. 151 Ent. Mag. 45.

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Yorkshire, Microlepidoptera; Porritt p. 399 Naturalist 1909.

South Yorkshire; Morley, 1944.

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Grange-over-Sands, Sterrha sacraria; Morley p. 91 Ent. Mag. 45.

Lonsdale and Barrow, Rhopalocera; Morgan, 1940.

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Dumfries, the capture of Melitaea didyma; M'Gowan & Service, Dumfries Trans. Nat. Hist. Soc. n. s. 20 p. 144.

Rothiemurchus, Evetria resinella; Bankes p. 259 Ent. Mag. 45.

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Westmeath, short list; Levinge p. 25 Irish Nat. 18.

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Guilleaume, Ann. Soc. ent. Belgique 53 p. 421; Belgium 2 novelties.

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Hubenthal, 1391; Kleine Bemerkungen zur deutschen Käferfauna.

Kessler, 1510; Verzeichnis der in u. um Sommerfeld vorkommenden Coccinelliden.

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Kolbe, 1600; Beiträge zur schlesischen Käferfauna.

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Schmidt, 2572; Verbreitung der Käfergallen in Schlesien.

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Heikertinger, 1279; Süd-Tirol, Chaetocnema sp. n.

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Holdhaus, Verh. z.-b. Ges. Wien 59 pp. (365)-(368); Grosslockners Exkursion.

Meixner, 1881; Koralpe Spezialkäfer und interessante Käfer.

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Habermehl, 1227; Germany and Switzerland Ichneumonidae 20 spp. n.

Forel, 931; Vaud, Valais, Faune xérothermique des fourmis.

Frey-Gessner, 969; Valais.

Saunders, 2535; Bernese Oberland Aculeata.

Aliken, 27; Apidenfauna von Westpreussen, Beitrag.

†Cockerell, 558; Oeningen Andrena sp. n.

†Cockerell, 530; Baltic amber 13 spp. n.

†Cockerell, 531; 4 spp. n. Apidae Prussian amber.

Dittrich, 712; Schlesien, Hymenopterologische Bemerkungen.

Heyden, 1316; Xylocopa violacea schon vor 110 Jahren bei Mainz.

Heymons u. Heymons, 1322; Hymenoptera, Süsswasserfauna Deutschlands.

Müller, 1982; Sphex maxillosus in der Mark.

Scherdlin, 2551; Alsace Formicidae, novelties, for Germany.

Scherdlin, 2552; Elsass Verzeichnis der Ameisen.

Schmidt, 2573; Verbreitung der Gallwespen in der niederschlesischen Ebene Nachtrag.

Ulbricht, 2975; Germany Hygrocryptus sp. n.

Ulbricht, 2976; Ichneumoniden der Umgegend.

Sustera, 2869; Böhmens Hymenoptera.

Dalla Torre, 648; Verzeichnis der Chalastogastren Tirols.

Fulmek, 1044; Wien Stephanus serrator am Bisamberg.

Kubes, 1635; Hymenoptera Böhmens.

Kokujev, 1592; Mittelrusslands, Aphidae Bestimmungstabellen (Russ.).

Lepidoptera.

Klocker, 1572; Danish Heterocera part 1.

Slevogt, 2736; Bathen Cymatophora or ab. albingensis.

Slevogt, 2737; Curland, Notizen.

Slevogt, 2738; Beiträge zur Kenntnis der Krestowkas, Gouv. Orel.

Snellen, 2752; Bemerkungen über niederländische (Hollandisch).

Crombrugghe de Picquendaele, 619; Belgium 6 novelties.

Bazzigher, 168; Verzeichniss, Graubündens.

Favre, 865 & 866; Valais, Microlepidoptères.

Gottrau, 1143; Fribourg, de 1876 à 1906.

Keynes & Keynes, 1511; Switzerland, excursion.

Müller-Rutz, 1984; Switzerland Microlepidoptera.

Müller-Rutz, 1985; Kantonen St. Gallen, Appenzell und Thurgau, Kleinschmetterlinge, Verzeichnis.

Muschamp, 1991; Fusio Erebia flavofasciata, etc.

Page Ent. Rec. 21 pp. 77-83; excursion.

Pictet, 2219; Caractéristique biologique de 1907.

(Püngeler, 2289; Tephroclystia n. sp., Wallis.

Rehfous, 2333; Valais, Liste.

Tetley Ent. Rec. 21 pp. 53-55; Rhone valley excursion.

Tutt Ent. Rec. 21 pp. 154 & 155; Landwasser Valley.—Id. t.c. pp. 158-160; Fluela Pass.—Id. t.c. pp. 166-169; Sus to Guarda.—Id. t.c. pp. 197-201; Zernetz and Ofen Pass.—Id. t.c. p. 210; Muranza-Thal.—Id. t.c. pp. 225 & 226; Santa Maria to Munster.

Tutt Ent. Record 21 pp. 1-3; Sertig-Thal, excursion.

Tutt Ent. Rec. 21 pp. 110-113; Dischma-Thal.

Brake, 329; Macrolepidopteren Osnabrücks und der Nachbargebiete.

Dadd, 643; Falterformen aus Thüringen.

Dadd, 644; Germany, Erebia and Lycaena.

Gauckler, 1066; Neue Macrolepidoptera für Karlsruhe bez. f. Baden.

Gauckler, 1067; Lepidopteren-Raupen-Fauna des St. Michaelsberges Baden.

Gillmer, 1109; Hamburg, Verzeichnis Beske besprochen.

Gillmer, 1118; Aberrative Falter aus der Pfalz.

Goltz, 1135; Fangplätze alpiner Tagfalter.

Goltz, 1136; Stegania trimaculata im Elsass.

Griebel, 1178; Die Lepidopteren-Fauna der bayerischen Rheinpfalz.

Grünberg, 1218; Lepidoptera Die Süsswasserfauna Deutschlands.

Kabis, 1482; Badischen Beiträge.

Landwehr, 1687; Senne bei Bielefeld, Agrotis molothina.

Linstow, 1737; Uffeln's Grossschmetterlinge Westfalens, Bemerkungen.

Meder, 1859; Thüringen und Norddeutschland, Colias edusa.

Mitterberger, 1914; Salzburg Microlepidopteren.

Richter, 2409; Umgegend Stettins.

Schuster, 2643; Germany wiederkehrenden "Tertiärzeit".

Siegel, 2704; Oberen Vogelsberg, Fangergebnisse.

Spormann, 2783; Lemonia dumi in Pommern.

Warnecke, 3097; Verbreitung von Chrysophanus virgaureae in Nordwest-Deutschland.

Warnecke, 3098; Macrolepidopteren.

Warnecke, 3100; Agrotis molothina Lüneburger Heide, Verbreitung im Deutschland.

Doleschall, 730; Brünner Umgebung, Verzeichnis.

Dziarzynski, Jahresber. ent. Ver. Wien 19 p. 143; Umgebung Wiens.

Förster, 920; Tirol Lepidopterologische Mitteilungen von einer Sammelreise.

Gadolla, 1048; Steirischen Nym-phalidae.

Gadolla, 1049; Steirischen Lycaenidae und Hesperidae.

Galvagni, 1057; Karawanken und Steiner-Alpen Sammeltage.

Galvagni, Verh. z.-b. Ges. Wien 59 p. (233); Niederösterreich Argynnis thore.

Hirschke, Verh. z.-b. Ges. Wien 59 p. (238); Oesterreich-Ungarn, Luperina bischoffi.

Hoffmann, 1337; Derzeitigen Stand der Materialien zu einer mährischen Lepidopterenfauna.

Hoffmann, 1338; Macrolepidopteren des steirischen Ennstales.

Hoffmann, 1340; Erebia arete.

Hoffmann, 1342; Glocknergebietes.

Kordesch, 1605; Der Naarntales Lycaenidenfauna.

Menšík, 1887; Chrudimer Kreise Böhmen.

Pieszczek, 2229; Judenburgin Steiermark, in besonderer Seetaler-Alpen.

Preissecker, 2277; Niederoesterreich novelties.

Rebel, 2321; Croatien, Oreopsyche sp. n.

Rebel, 2322 & 2323; Ostalpen Hiptelia sp. n.

Rosa, 2453; Hungary Rhopalocera list.

Růžička, 2513; Chrudimer Kreise.

Sheldon, 2681; Hungary Rhopalocera.

Skala, 2732; Brünn, Nachtrag zur Doleschall.

Sterneck, 2808; Prag Beitrag.

Sterzl, 2809; Waldviertels in N.-Oe.

Tutt, Ent. Rec. 21 pp. 228-230; Tyrol Rhopalocera.

Blöcker, 249; Gouv. Olonetz, Macrolepidoptera.

Jachontov, 1407; Lepidopteren von Central-Russland und deren Aberrationen (Russ.).

Krulikowsky, 1627; Verzeichnis, Gouvernements Kasan.

Krulikovskij, 1628 & 1629; Gouv. Vjatka (Russ.).

Krulikovskij, 1630; 3 spp. n., Hadena, Choreutis and Gracilaria.

Krulikovskij, 1631; Gouv. Vologda, Lepidoptera (Russ.).

Krulikovskij, 1632; Uralsk Caradrina sp. n.

Krulikovskij, 1633; Gouv. Perm (Russ.).

Krulikovsky, 1634; Gouv. Viatka und deren Aberrationen (Russ.).

Kuznecov, 1652; Crimea Hipparchia sp. n.

Miller & Zubowskij, 1909; Gouv. Bessarabien, Macrolepidoptera (Russ.).

Sinegub, 2720; Russland, Lepidq-ptera (Russ.).

Voroncovskij, 3053; Orenburg (Russ.).

Trichoptera.

Rousseau, Ann. Soc. ent. Belgique 53 p. 236; Belgium 3 novelties.

Felber, 867; Schweiz, Trichopteren.

Ulmer, 2979; Thuringia, Heliconis sp. n.

Ulmer, 2982; Die Süsswasserfauna Deutschlands.

Dziedzielewicz, 784; Carpathians, gen. n. Limnophilidae.

Neuroptera,

Heymons & Heymons, 1321; Neuroptera, Süsswasserfauna Deutschlands.

Diptera.

Dahl, 645; Germany 6 spp. n., Limosina and Tetraneurella.

Kieffer, 1519; Germany Chironomidae many spp. n.

Kieffer & Thienemann, 1528; Westfälischen Chironomiden, many spp. n.

Kleine, 1569; Laphria und Andrenosoma, Deutsch - Oesterreichischen Faunengebietes.

Kramer, 1610; Germany Sarcophaga sp. n.

Lange, 1688; Ober Erzgebirges, Syrphus sp. n.

Riedel, 2412; Niederrhein, Dipterologische Skizzen.

Schroeder, 2608; Dipteren-Fauna Pommerns, Syrphidae.

Speiser, 2777; Germany Culicidae.

Czižek, 639; Des Altvaters und des Tesstales.

Strobl, 2847; Austria Muscidae Acalypterae 22 spp. n.

Vimmer, 3039; Böhmens Seltene Fliegen.

Vimmer, 3038; Böhmens Dipteren.

Czižek, 638; Die mährischen Leptogaster und Dioctria.

Townsend, 2933; Tachinidae gen. n.

Aphaniptera.

Oudemans, 2112; Holland Ischnopsyllus sp. n.

Rothschild, 2476; Austria Ceratophyllus 4 spp. n.

Rothschild, 2477; Roumania Ceratophyllus sp. n.

Hemiptera.

Schouteden, p. 422 Ann. Soc. ent. Belgique 53; Belgium Lepyronia coleoptrata novelty.

Kuhlgatz, 1643; Rhynchota Süsswasserfauna Deutschlands.

Puhlmann, 2292; Cicadinenfauna Krefelds.

Reichensperger, 2344; Interessante Hemiptera-Arten aus dem Rheinland.

Gorka, 1140; Hungary Omorgius niloticus.

Šulc, 2852; Siebenbürgen *Psylla* sp. n.

Kiričenko, 1536; Crimea Heteroptera (Russ.).

Aphidas.

Börner, 261; Vosges Phylloxera sp. n.

Mordwilko, 1938; Russia Macrosiphum 2 spp. n.

Thysanoptera.

Bagnall, 98; in hot-houses Brussels, 2 spp. n., Euthrips and Cephalothrips.

Grevillius & Niessen, 1177; Physopus sp. n.

Psocidae.

Heymons, 1318; Troctes sp. n. als Schädling in Buchweizengrütze, Perlidae.

· Enderlein, 818; Germany Isogenus sp. n.

(Ris, 2419; Schweizerische Perliden.) Klapálek, 1557; Austria, Capnia sp. n.

Ephemeridae.

Petersen, 2159; Denmark Rhithrogena sp. n.

Dziedzielewicz, 784; Carpathians Heptagenia sp. n.

Odonata.

†Reis, 2353; Muschelkalk gen. n.

Remkes, 2378; Des Hülserbruchs.

Ris, 2420; Odonata, Die Süsswasserfauna Deutschlands.

Puschnig, 2293; Kärntnerische Libellenstudien.

Barteuef, 146; Odonaten des nördl. Ural (Russ. + engl. Rés.).

Bartenev, 147; Kars (Russ.).

Voroncovskij, 3054; Orenburg, sp. n. (Russ.).

Zograf, 3237; Don. Gebiete (Russ.).

Orthoptera.

Petersen, 2162; Danish.

†Handlirsch, 1249; Altdorf Trias Pedinoblatta gen. n.

Krauss, 1614; Germany Nemobius heydeni novelty.

Werner, 3159; Austria.

'Holdhaus, 1344; Walouyki.

Pylinov, 2295; Land der Donischen Kosaken (Russ.).

Collembola.

Heymons u. Heymons, 1320; Collembola, Die Süsswasserfauna Deutschlands.

(f) France.

Insecta, collectively.

Abot, 7; Deux insectes rares pour l'Anjou.

†Meunier, 1890; Commentry Stephanien Paleodictyoptera sp. n.

†Meunier, 1894; Commentry 8 spp. n., genn. n.

Colcoptera.

Abeille, 5; Provence Rhipidius sp. n.

Agnus, 17; Coléoptères en partio nouveaux pour la France.

Bedel, 183; Sainte-Menehould Liste?

Carpentier, 471; Département de la Somme Catalogue.

Desbrochers, 685; France et Corse, Tychiides 5 spp. n.

Deville, 689; Seine Staphylinidae pt. 1.

Dubois, 750; Deux Leptura.

Du Buysson, 753; France, Thyamis sp. n.

Duchaussoy, 759; Normandie.

Fauvel, 863; Stenus subglaber novelty.

Formánek, 945; Monte Viso Trachy-phloeus sp.

Gavoy, 1072; Tarn Coléoptères Supplément.

· Jeannel, 1427; Speonomus silphides cavernicoles pyrénéens et sur leur distribution géographique 1 sp. n.

Jeannel, 1428; Trechus sp. n.

Jeannel, 1430; Pyrénées Coleoptères cavernicoles nouveaux ou peu connus des.

Lambertie, 1672; Liosoma pyreneum.

Lambertie, 1673; Habitat des espèces du *Donacia* de la Gironde.

Lesne, 1719; Stephanopachys substriatus Payk. nouveau française.

Peneau, 2150; Loire-Inférieure (suite).

Peyerimhoff, 2170; Basses-Pyrénées, Trechus sp. n.

Peyerimhoff, 2171; Basses-Pyrénées Coléoptères nouveaux pour.

Pic, 2178; Saône-et-Loire.

Pic, 2194; Hautes-Alpes en 1908.

Pineau, 2230 : Loire-Inférieure.

Valéry-Mayet, 2980; L'Hérault, Catalogue.

Viturat et Fauconnet, 3043; Catalogue analytique et raisonné de Saôneet-Loire et des départements limitrophes. Hymenoptera.

Pic, 2192; Ichneumoniens des Alpes françaises.

Lepidoptera.

Brown, 372; Note sur les Sacraria et les Sarathamnaria.

Brown, 373; Note sur une mise au point de quelques espèces méridionales de papillons encore mécon nues.

Chapman, 494; S. France Callophrys sp. n.

Chrétien, 511; France 2 spp. n. Epiblema and Lita.

Daydie, 664; Nouveaux ou peu connus de la faune girondine.

Gibbs, 1091; Vosges, trip.

Goury, 1147; Fontainebleau Gelechia maculatella.

Joannis, 1441; Gelechia maculatella. Joannis, 1441a; Lépidoptères du Morbihan.

Joannis, 1444; Vaucluse Sesia sp. n. Joannis, 1446; Vannes Scythris sp. n. Lucas, 1749; France, Psorosa sp. n.

Oberthür, 2079; Vernet-les-Bains Sesia sp. n.

Rondou, 2449; Nouveaux des Pyrénées.

Rondou, 2450; Hepialus pyrenaicus.

Rothschild, 2474; Sesia andrenaeformis à Chantilly.

Rowland-Brown, 2505; Cantal and Lozère trip, Rhopalocera.

Siépi, 2706; Ocrisia robiniellae à Marseille.

Spröngerts, 2784; Digne.

Neuroptera.

Navàs, 2017; Puy-de-Dôme, Hemero-dromia gen. n.

Diptera.

Becker, 177; Digne und Dauphiné, Dolichopodiden 3 spp. n.

Blanchard, 246; Phlebotomus.

Massonat, 1847; Pupipares, région lyonnaise.

Villeneuve, 3035; France, Conopidae: Melanosoma sp. n.

Aphaniptera.

Rothschild, 2477; Lautaret Ctenophthalmus sp. n.

Hemiptera.

Lambertie, 1667.

Lambertie, 1668; Notes.

Lambertie, 1670; Nouveaux ou peu connus de la Gironde.

Lambertie, 1674; Dispersion de deux espèces d'Homoptères du département de la Gironde.

Lambertie, 1675; Phyllomorpha laciniata.

Lambertie, 1676; Nuisibles et utiles Hémiptères du sud-ouest de la France.

Lambertie, 1677; Hémiptères nouveaux pour la Gironde.

Marchal, 1805; Coccidae, Midi de la France et Corse.

Mjöberg, 1920; France Aneurus tuberculatus.

Royer, 2508; Hémiptères nouveaux ou peu connus.

Royer, 2510; Graphosoma.

Odonata.

Coulon, 611; Odonates du Musée d'Elbeuf, faune française.

Orthoptera.

Azam, 80; Orphania, nouveau pour la France.

De Vichet, 687; Mante religieuse à Besançon.

†Leriche, 1717; Stephanoblatta houiller de Commentry.

(g) South Europe and Mediterranean Basin.

Insecta, collectively.

Bariego, 140; Spain, list.

Mercet, Bol. Soc. Aragon 8 p. 135; Moncayo list, Chaetocnema sp. n.

Navás, 2022; Aragon 3 spp. n., Perla, Stauroderus and Pamphagus.

Navás, 2024; Teruel list, Mallorca Orthoptera.

Coleoptera.

Fuente, 1040; Ciudad Real Pachy-brachys sp. n.

Jeannel, 1429; Spain Cavernicolous Silphidae 7 spp. n., genn. n.

Lauffer, 1695; Spain 2 spp. n., Steropus and Ceratophyus.

Roubal, 2493; Spanien Philonthus

Schramm, 2589; Sierra de Gredos Dorcadion sp. n.

Beffa, 185; Italy Note.

Beffa, 186; Toscana omessi nel Catalogo del Bertolini.

Bernhauer, 213; Italy Anthobium sp. n.

Cecconi, 479; Isole Tremiti.

Della Beffa, 672; Note coleotterologiche.

Ericson, 843; Kalabrien Pteryx sp. n.

Fiori, 892; Italy Dasytes sp. n. Fleischer, 903; Capri Colon sp. n.

Kniž, 1535; Adamello Helophorus sp. n.

Leoni, 1714; Italy Appunti.

Leoni, 1715; Italy Asida spp. n.

Löden, 1738; Italy Polydrusus sp. n.

Porta, 2252; Revisione dei Brachynini italiani.

Reitter, 2373; Calabria Sphaerosoma 2 spp. n.

Reitter, 2374; Italy 2 spp. n., Sitona and Orestia.

Reitter, 2375; Italy 3 spp. n., Liodes, Agathidium and Sphaerosoma.

Silvestri, 2712; Italy Chilocorus kuwanae.

Vitale, 3042; Nuovi o rari per la Sicilia.

Formanek, 945; Sardinia, Trachy-phloeus sp. n.

Krausse, 1617; Nächtliches Käferleben in den Strassen von Oristano, Sardinien.

Deville, 690; Corsica Catalogue Placusa-Coccidula.

Heikertinger, 1275; Corsica Aphthona sp. n.

Breit, 342; Mallorca long list.

Abeille, 2; Algérie 6 spp. n., Troglops and Halticidae.

Deville, 688; North Africa Hydraena 2 spp. n.

Du Buysson, 431; Algeria Gonochry sis sp. n.

Escalera, 844; Melilla 2 spp. n. Globasida and Gracilasida.

Escalera, 845; Marocco Meloidae 3 spp. n.

Escalera, 846; Marruecos Zonabris 7 spp. n.

Normand, 2066; Tunis Geotiba sp. n.

Normand, 2067; Tunis Euthia sp. n. and Cephennium sp. n.

Peyerimhoff, 2165; Revision des Eustemnus du Nord africain.

Peyerimhoff, 2169; North Africa Scydmaenus 4 spp. n.

Peyerimhoff, 2172; Faune cavernicole du Djurjura.

Fleischer, 913; Herzegowina Stenus sp. n.

Netolitzky, 2032; Bosnien-Herzegowina Bembidium sp. n.

Müller, 1980; Dalmatiae Georyssidae, Dryopidae, Heteroceridae et Hydrophilidae.

Lokay, 1742; Montenegro Alophus sp. n.

Müller, 1979; Karstgebiet and Balkan 4 spp. n., Trechus, Bythinus and Aphaobius.

Apfelbeck, 53; Peninsulae balcanicae 13 spp. n. Hydroporus, Nargus, Anthopagus, Hydraena, Anisoplia, Hylaia and Sphaerosoma.

Breit, 343; Balkanhalbinsel Bembidion and Trechus spp. n.

Roubal, 2489; Rumelien Danacaea sp. n.

Rambousek, 2312; Bulgariens Staphylinidae (Böhmisch.) 3 spp. n., Thinobius, Ocyusa and Myrmecopora.

Rambousek, 2309; Bulgarien Pselaphidae, Scymaenidae, 5 spp. n.

Rambousek, 2310; Mazedonien Penetretus sp. n.

Rambousek, 2311; Makedonien Bythinus n. sp.

Schatzmayr, 2541; Makedonien, 9 spp. n., Carabidae and Ochthebius.

Schatzmayr, 2542; Makedonien Carabidae 3 spp. n. Bembidium and Platynus.

Alluand, 33; Eyptian mummies, Col. in.

Ferrante, 883; Cairo Malthinus sp. n.

Reitter, 2371; Cairo Cephisus sp. n. Sericoderus sp. n.

Hartmann und Weise, 1256; Aegypten, Halbinsel Sinai, Palästina und Syrien, *Lixus* sp. n.

Crotch, 623; Sinai 1872?; espèces nouvelles.

Abellle, 4; Syrie, Aristus sp. n.

Olivier, 2087; Lebanon Luciola sp. n.

Reitter, 2357; Palestine Onthophilus sp. n.

Pic, 2205; Altisids de la Turquie d'Asie et de l'Europe méridionale.

Reitter, 2354; Asia minor Hypulus sp. n.

Hymenoptera.

Alfken, 28; Spain Nomada sp. n., Triest Halictus sp. n.

Forel, 934; Spain Formicidae long list.

Mercet, 1888; Spain Tachysphex 4 spp. n.

Mercet, 1889; Spain Nysson 10 spp.

Ferton, 884; Algeria Megachile 2 spp. n.

Pérez, 2155; Variétés de Bourdons de la Corse.

Krausse, 1619; Hummelfauna Sardiniens und Corsicas.

Lepri, 1716; Italy Sirex sah, romana. Masi, 1843; Italy Chalcididae 6 spp.

Silvestri, 2714; Italy introduced parasites.

Trani, 2941; Naples Laclius sp. n.

Forel, 938; N. Africa and Italy, Formicidae list, 2 spp. n., Formica and Aphaenogaster.

Santschi, 2533; Maroc, Tunisie, Syrie, etc., Leptothorax rottenbergi et espèces voisines.

Schulthess Rechberg, 2621; Pompilus sp. n. Tripolis und Barka.

Santschi, 2531; Tunisie capturées en 1906: Leptanilla.

Santschi, 2530; Nouvelles fourmis, Egypte, Canaries, Tunisie.

Morice, 1943; Syria Chrysidae list, 2 spp. n., Spinolia and Chrysis.

Schmiedeknecht, 2576; Lebanon Spilochalcis sp. n.

Emery, 809; Anatolia Formica sp. n.

Lepidoptera.

Rebel und Daub, 2329; 5 spp. n. Thargelia, Eucrostes, Nephopteryx, Bostra and Cybolomia.

Wheeler, Ent. Rec. 21 pp. 248-253, and 281-285; Rhopalocera.

Chapman, 493; Callophrys sp. n.

Moraes, Broteria 8 p. 74; Minho long list.

Rothschild, Ent. Rec. 21 pp. 153 and 154; Cintra short list.

Lowe, Ent. Rec. 21 pp. 34-36 and 62-66; Spain.

Kheil, 1513; Benasque short list.

Ribbe, 2406; Andalusien Macrolepidoptera.

Rostagno and Zapelloni; 2465, Lepidoptera romanae; Nymphalidae, Libytheidae, Erycinidae.

Stefanelli, 2799; Miscellanea d'Italia. Verity, 3017; Isola d'Elba.

Mayer, 1858 Sizilien Sammelausflug.

Schawerda, 2543; Sammelreisen in Bosnien und in der Herzegownia.

Marchi, 1814; Ropaloceri del Trentino.

Hoffmann, 1341; Adelsberg und Triest-Muggia, Ausflug.

Bachmetjev, 87; Lepidopterenfauna Bulgariens (Russ.).

Drenowsky, 742; Lepidopteren-Fauna des höchsten Teils des Zentral-Balkans.

Chrétien, 512; Biskra 5 spp. n. Eucrostis and Acidalia.

Kheil, 1512; Spanish Guinea 4 spp. n., Stracena, Marbla, Aiteta and Acidalia. (Püngeler, 2288; Sesia seitzi n. sp. Algerien.)

Rothschild, 2483; Algeria 3 spp. n., Cleophana, Thalpochares, Palpangula.

Seitz, 2653 & 2654; Mauretanisches, Catocala oberthuri, Orgyia dubia splendida. Sphing.

Trautmann, 2945; Algeria Hyalina sp. n.

Lucas, 1749; Tunisie, 4 spp. n., Chilena, Acidalia, Platytes and Staudingeria.

Draüdt, 741; Egypt Eremobia sp. n. Joannis, 1442; Egypte Acosmetia sp. n.

Joannis, 1443; Egypt Eublemma 2 spp. n.

Culot, 635; Syria Syntomis sp. n.

Homberg, 1353; Syria Acidalia sp. n.

Strand, 2840; Eregli und Taurus.

Rebel, Verh. z-b Ges. Wien 59 pp. (235) and (236); Trapezunt Lepidopterenausbeute.

Bohatsch, 265; 3 spp. r., Leucochlaena, Gnophos and Chesias aus Russ. Armenien.

Trichoptera.

Navás, 2013; Spain and Portugal monograph.

Navás, 2014; Syria Hemerobius sp. n.

· Neuroptera.

Navás, 2019; Spain list of Chrysopa.

Navás, 2013; Spain and Portugal, Neuroptera, 5 spp. n.

Navás, 2015; Egyptshortlist.

Navás, 2020; Madrid, Myrmeleon sp. n., gen. n. near Hemerobius.

Diptera.

Hermann und Villeneuve, 1301; 5 spp. n., Systoechus, Habropogon, Disjunctio, Deuterammobia and 2 genn. n. Bombyliidae and Muscidae.

Czerny und Strobl, 638; Spanische Dipteren, iii Beitrag, many spp. n., genn. n.

Tavares, 2902; Spain Cecidomyiidae 3 spp. n.

Villeneuve, 3034; Corsica Merodon sp. n.

Corti, 605; Italy 5 spp. n., gen. n. Oscinidae.

Kieffer, 1521; Algeria Sciara 2 spp.

Austen, 75; Cyprus Muscinae gen. n. Bezzi, 229; Syria and Egypt list 9 spp. n.

Aphaniptera.

Cobelli, 523; Trentino.

Fulmek, 1045; Tripolis und Barka Pulex sp. n.

Rothschild, 2477; Biskra gen. n.

Hemiptera.

Lindinger, 1732; Eur. mer. Aspidiotus sp. n.

Horvath, 1371; Portugal Schizoneura sp. n.

Leonardi, 1712; Italy Coccidae 14 spp. n.

Picco, 2214; provincia di Roma.

Marchal, 1808; Cochenilles du midi de la France et de la Corse, 4 spp. n.

Stadler, 2793; Dalmatia, novelties.

Schouteden, 2586; Morocco Ectrichodia sp. n.

Poppius, 2244; Sahara Atomophora sp. n.

Lambertie, 1666; Hémiptères recueillis en Tunisie par M. Blanc.

Reuter, 2390; Sicily, Africa bor. and Syria, Reduviidae 3 spp. n. Ischnonyctes and Holotrichius.

Reuter, 2393; Syria 2 spp. n., Anthocoris and Microphysa.

Thysanoptera.

Buffa, 397; Italy 2 spp. n., gen. n.

Cobelli, 522; Trentino.

Buffa, 396; Tunis Autothrips sp. n.

Psocidae.

Navás, 2013; Spain and Portugal monograph.

Embiidae.

Navás, 2013; Spain and Portugal Embia 3 spp. n.

Enderlein, 829; Egypt gen. n. "

Plecoptera-Perlidae.

Navás, 2020; Madrid Perlodes sp. n. Navás, 2014; Beyrouth gen. n.

Odonata.

Martin, 1837; Syrie, Psilocnemis sp. n., Anax immaculifrons.

Orthoptera.

Burr, 409; Marocco and S. Eur. Forficula 2 spp. n.

Shelford, 2685; Spanish Guinea Blattidae 5 spp. n.

Krauss, 1615; Dermaptera ur d Orthoptera aus Aegypten, der Halbinsel Sinai, Palästina und Syrien, 2 spp. n. Pamphagus and Duronia.

Apterygota.

Berlese, 206; Protura 3 spp. n.

Wahlgren, 3079; Egypt and Soudan, Collembola 13 spp. n., Thysanura 2 spp. n.

(h) Caucasus, West & Centr. Asia.

Insecta, collectively.

Karawajew, 1485; Transkaspien, Myrmekophile Insekten, Thysanura sp. n.

Kastanje, 1490; Syr-Darja und Turgai-Gebiets (Russ).

Coleoptera.

Clermont, 521; Liste Transcaucasie. Lučnik, 1759; Gouv. Stavropol, Cicindelidae, Carabidae (Russ.).

Lučnik, 1762; Gouv. Stavropol. Necydalis major.

Semenov, 2658; Ciscaucasia, Laemostenus sp. n.

Kerremans, 1501; Perse et Asie mineurc, Sphenoptera 15 spp. n.

Kniž, 1585; Nordwest-Persien Ochthebius sp. n.

Reitter, 2255; Persia Laccobius sp. n. Reitter, 2360; Persia Dila sp. n.

Semenov, 2659; Persia Lamprasp. n. Zaitzev, 3223; Persia Sternolophus sp. n. Semenov, 2656; Centr. Asia 8 8 spp. n., Taphoxenus, Stenolepta, Agonini gen. n., Crioceris, Galeruca, Leptodes and Pinophilus.

Sumakov, 2858; Turkestan und Transkaspien.

Sumakov, 2860; Centr. Asia Tagona sp. n.

Suvorov, 2870; Centr. Asia and Mongolia Deracanthus 4 spp. n.

Suvarov, 2872; Turgai-Gebiet Compsodorcadion sp. n.

Suvorov, 2873; Turgai-Gebiet, Temnorhinus sp. n.

Suvorov, 2874; Transcaucasia, Dorcadion sp. n.

Barovskij, 145; Turkestan, Transcaspia, Lithophilus 2 spp. nn.

Fleischer, 904; Samarkand Limnichus sp. n.

Fleischer, 905; Turkestan Ebaeus sp. n.

Fleischer, 911; Turkestan Atomaria sp. n.

Fleischer, 906; Turkestan Stylosomus sp. n.

Fleischer, 912; Turkestan Hypera sp. n.

Glazunov, 1130; Turkestan Platysma (Derus) 2 spp. n.

Arrow, 59; Yemen Phaeochrous sp. n.

Wagner, 3069; Arabia Apion sp. n.

Barovsky, 141; Scrafschan, Buchara, Cantharis 2 spp. nn.

Reitter, 2359; Buchara sp. n. Solskyia.

Hymenoptera.

Kokujev, 1593; Russisch-Asien, 7 spp. nn.

Semenov, 2661; Kirgisensteppe and Turkestan occid. etc., *Chrysididae*. 9 spp. n.

Karawajew, 1486; Transkaspien u. Turkestan, Formicidae spp. nn.

Alfken, 30; Syr-Darja-Gebiet, Prosopis sp. n.

Lepidoptera.

Jachontov, 1406; Caucasus Rhopa-locera notes.

Rebel, Vorh. z.-b. Ges. Wien 59 p. (231); Sinai Thargelia gigantea.

John, 1451; Syr-Darja Epicnaptera sp. n.

Trichoptera.

Martynow, 1842; Kaukasus 9 spp. n. Martynow, 1841; Tibet, Tsaidam, spp. n.

Ulmer, 2977; Centr. Asia Dolophilodes gen. n.

Diptera.

Becker, 172; Persia and Arabia, Apoclea 5 spp. n.

Hendel, 1288; Turkmenien Myennis sp. n.

Hendel, 1295; Turcomania Chrysomyza sp. n.

Austen, 75; Sokotra Muscinae gen. n.

Aphaniptera.

Wagner, 3071; Kaukasien, 1 gen. 2 spp. n.

Hemiptera.

Poppius, 2250; Persia and Transcaspian, Vachiria 3 spp. n.

Ošanin, 2102; Russ. Turkestan Naucoridae gen. nov. 1 sp. n.

Orthoptera.

Lučnik, 1760; Nordwestlicher Kaukasus (Russ.).

Stschelkanowzeff, 2849; 6 spp. n. Locustidae and Helioscirtus.

Africa.

For North Africa vide Palaearctic (g).

Insecta, collectively.

Enderlein, 832a; S. Africa, Menopon sp. n. and Anoplura gen. n.

Filippi, 890; List of novelties of italian Ruwenzori expedition.

Johnston, 1462; Liberia list.

Coleoptera.

Arrow, 53; Rhodesia and adjacent, 10 spp. n., Sisyphus, Onitis, Apogonia, Eccoptocnemis, Leucocelis and Platydacne.

Arrow, 58; Natal Platychora sp. n. Arrow, 59; Phaeochrous 5 spp. n.

Arrow, 60; Ruwenzori 10 spp. n., Popillia, Adoretus, Tmesorrhina, Glycyphana, Amblyscelis and Epilachna.

Aurivillius, 71; Natal, Zululand Cerambycidae, 2 spp. n.

Bénard, 191; Rhyssemus sp. n.

Bernhauer, 210; Ostafrika Hasumius 4 spp. n.

Boileau, 268; Kilimandjaro-Meru, Lucanidae, 1 g. and sp. n.

Borchmann, 282; Lagriidae 19 spp. n.

Borchmann, 284; Lagriidae 6 spp. n.

Borchmann, 285; Kilimandjaro-Meru, Lagriidae 3 spp. n., Cantharidae 4 spp. n.

Bourgeois, 308; Congo Lycides and Lymexylonides list.

Bourgeois, 309; Congo français Lycus sp. n.

Camerano, 438; Uganda e Ruwenzori.

Clavareau, 516; Africa trop. and Transvaal Chrysomelidae 17 spp. n., Sphondylia, Colobaspis, Crioceris, Lema, Gynandrophthalma, Peploptera, Cryptocephalus Colasposoma, Euryope and Chrysomela.

Eichelbaum, 801; Gyrophaena sp. n. Fauvel, 864; 3 spp. n., Lispinus and Oxytelus.

Felsche, 868; Abyssinia 3 spp. n. Oniticellus, Trcx and Rhyparus.

Felsche, 869; Coprini 4 spp. n. Gymnopleurus, Sisyphus and Geotrupes.

Gahan, 1052; Abyssinie et Afrique orientale, Lamiidae 6 spp. n.

Gahan, 1653; Ruwenzori 27 spp. n. Lycus, Metyris, Alaus, Lagria, Mylabris, Horia, Clytus, Sternotomis, Ceroplesis, Phrystola, Phrynetopsis, Glenea, Dirphya, Phytoecia, Macrolopha, Colasposoma, Oides, Diacantha, Bonesia, Aulamorphus, Hemiphracta, Monolepta & Taphroderinae gen. n.

Gestro, 1089; Natal Brachispa sp. n.

Gillet, 1100; Sahara et régions voisines 3 spp. n., Gymnopleurus, Saproecius & Cheironitis.

Gillet, 1101; Africa trop. Onitis 3 spp. n.

Grouvelle, 1205; Afrique orientale et Haute-Vallée du Nil, Georyssus et Heterocerus 7 spp. n.

Grouvelle, 1206; Afrique orientale allemande 22 spp. n., Nitidulidae, Colydiidae, Cucujidae, Monotomidae, Cryptophagidae.

Grouvelle, 1207; Africa or. & mer. 44 spp. n., Nitidulidae, Colydiidae, Cucujidae, Monotomidae, Cryptophagidae & Typhaea.

Grouvelle, 1209; Kilimandjaro-Meru, Clavicornes 19 spp. n.

· Grouvelle, 1210; Afrique orientale allemande, 14 spp. n., Brachypterus, Cillaeus, Mèligethes, Cyllodes, Ditoma, Laemophloeus & Europs.

Hagedorn, 1229; Scolytidae 13 spp.

Heller, 1285; Erythraea Curculionidae, 3 spp. n., 2 genn. n.

. Hintz, 1326; German Africa Cerambycidae 17 spp. n.

Horn, 1361; Trop. Africa, Dromica 3 spp. n.

Horn, 1365; Katanga Dromica 2 spp. n.

Kerremans, 1500; Somaliland 3 spp. n., Psiloptera, Chalcogenia & gen. n. near Bubastes.

Kerremans, 1502; Africa trop. & mer. Buprestidae 9 spp. n.

... Kolbe, 1526; S.W. Africa Corythoderus sp. n.

Kolbe, 1599; Ueber die Atren und Unterarten der *Dicranorhina* und Verbreitung.

Künckel d'Herculais, 1637; Afrique orientale anglaise Cétonides.

Kuhnt, 1644; Congo Stephanocrates

Lesne, 1724; Abyssinie, 5 spp. n.

Lewis, 1726; Africa trop. & mer. Histeridae 7 spp. n.

Maindron, 1789; Congo Cicindela

Maindron, 1790; Assinie Callistomimus sp. n.

Marshall, 1820; Congo Curculionidae 6 spp. n., gen. n.

Marshall, 1824; Ruwenzori Curculionidae 7 spp. n., 2 genn. n.

Moser, 1962; 4 spp. n., Pachnoda, Anoplochilus, Elassochiton & Amaurina.

Olivier, 2087; Angola Diaphanes sp. n.

Olivier, 2091; Africa occ. Luciola sp. n.

d'Orbigny, 2099; Congo Onthophagus sp. n.

d'Orbigny, 2100; Espèces nouvelles d'Onthophagides et Notes synonymiques.

Pangella, 2124; Passalidi, Cetoniini, ed Elateridi dell' Uganda e del Ruwenzori.

Peringuey, 2157; S. Africa Meloidae 29 spp. n., 7 genn. n.

Pic, 2180; Congo 6 spp. n., Silidius, Lytta & Zonabris.

Pic, 2181; Congo 2 spp. n., Hapalochrous & Zonabris.

Pic, 2184; Hylophilus 5 spp. n.

Pic, 2191; Africa 12 spp. n., Nemognatha, Apalus & Zonabris.

Pic, 2207; Dahomey & Natal Zonitomorpha 2 spp. n.

Raffray, 2306; Abyssinia Connodontus sp. n.

Schenkling, 2547; East Africa Trichodes sp. n.

Schmidt, 2559; Aphodiini, 8 spp. n. .

Schmidt, 2560; Aphodiidae 7 spp. n.

Schönfeldt, 2584; Kilimandjaro Meru, Brenthidae list.

Schwartz, 2646; Elateridae many spp. n.

Sicard, 2699; Rodolia sp. n.

Spaeth, 2775; Kilimandjaro-Meru, Cassidae list, gen. n., 5 spp. n.

Szombathy, 2894; Adelocera sp. n.

Théry, 2911; Lac Rodolphe Buprestidae 4 spp. n., 2 genn. n.

Wagner, 3064; Congo Apion 3 spp. n.

Wagner, 3065; Africa trop. & mer. Apion 16 spp. n.

Warren, 3105; Trop. & S. Africa Geometridae 28 spp. n. & Epiplema 2 spp. n.

Waterhouse, 3120; Ruwenzori Agrilus sp. n.

Weise, 3145; Chrysomeliden und Coccinelliden aus Deutsch Zambesia, 2 spp. n., Monolepta & Blepharida.

Weise, 3147; Kilimandjaro-Meru, Chrysomelidae list, 5 genn. n., 88 spp. n., Coccinellidae list, 12 spp. n.

Wellman, 3152; Angola Meloïdae 12 spp. n.

Wellman & Horn, 3155; Angola Cicindela sp. n.

Hymenoptera.

André, 38; Congo Mutilla sp. n. & Dasylabroides sp. n.

André, 39; S. Africa Mutillidae 6 spp. n.

André, 40; Südafrika Mutillidae 6 spp. n.

Bingham, 239; Ruwenzori 2 spp. n., Philanthus & Iphiaulax.

Brauns, 322; Südafrika Epeolus 2 spp. n.

Brauns, 333; Südafrikas Crocisa 4 spp. n.

Brues, 385; S. Africa Scelionidae

Du Buysson, 431; Hexachrysis sp. n.

Cameron, 456; S. Africa gen. n. Meteorinae.

Cockerell, 535; 2 spp. n. Nomioides & Nomia.

Cockerell, 552; Benguella Megachile sp. n.

Crosby, 621; Africa or. Chalicididae 9 spp. n.

Du Buysson, 758; Monographie Belonogaster, 2 spp. n.

Forel, 933; Formicidae 10 spp. n.

Friese, 979; Kilimandjaro-Meru, Apidae List, 26 spp. n.

Friese, 980; Apidae many spp. n.

Kohl, 1591; Pemba isld. Sceliphron sp. n.

Meunier, 1893; Zanzibar copal Alaptus sp. n.

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Meunier, 1895; Zanzibar copal Mymarinae sp. n.

Mocsáry, 1926; Africa or. Tenthredinidae 4 spp. n.

Peringuey, 2156; S. Africa Mutillidae 29 spp. n.

Silvestri, 2716; Africa mer. Prospaltella sp. n.

Turner, 2965; Erythrea Plesia sp. n. Zavattari, 3228; Ruwenzori.

Lepidoptera.

Aurivillius, 69; Tropical and S. Africa, 39 spp, nn., Acraea, Diestogyna, Aphnæus, Imbrsia, Leucoperina gen. n., Phasicnecus, Tuerta, Chionopsyche gen. n., Beralade, Bombycopsis, Philoterma, Leipoaxis, Ceratopacha gen. n., Schausinna gen. n., Trichopisthia gen. n., Catabeleda, Taragama, Pachypasa, Craspia gen. n., Odonotopacha gen. n., Pachymeta, Rhynchobombyx gen. n., Parameta gen. n., Stenophatna gen. n., Opisthodontia.

Aurivillius, 72; Pemba isld. 2 spp. n. Pygaera & Homeomeria.

Bastelberger, 156; Congo 3 spp. n., Thalera, Epigynopteryx & Xylopteryx.

Bastelberger, 158; Africa or. Acidalia 3 spp. n.

Bastelberger, 162; Angola Geometridae 4 spp. n.

Bastelberger, 164; Geometridae 8 spp. n., gen. n.

Bethune-Baker, 218; Trop. Africa 42 spp. n., Oberonia, Notodontidae 2 gen. n., Gargetta, Marshalliana, Metarbela, Miresa, Parasa, Narosa, Paraphanta, Leipaxais, Olapa, Euproctis, Laelia, Soloe, Estigmene, Borolia, Westermannia, Hypothripa, Arcyothora, Ogovia, Ercheia, Ophiusa, Capnodes, Diomea, Sarmatia, Hypena, Aegocera, Rhanidophora, Negla, Stemmatophora, Pilocrocis, Phryganodes, Sylepta and Glyphodes.

Druce, 745; West Africa Hesperiidae 10 spp. n.

Dudgeon, 764; W. Africa 3 spp. n., Acraea, Mycalesis & Lipteninae gen. n.

Ehrmann, 799; Congo Papilio sp. n.

Eltringham, 803; Cameroons Mimacraea sp. n.

Fletcher, 916; S. Africa gen. n. Orneodidae.

Grünberg, 1215; Africa or. 2 spp. n., Epiphora & Phalera.

Hampson, 1244; 18 spp. n., Syntomidae, Arctiidae gen. n., Noctuidae.

Hampson, 1246; Macro-Heterocera 53 spp. n.

Hampson, 1247; Noctuidae Acronyctinae 33 spp. n.

Heron, 1204; Ruwenzori Rhopalocera 8 spp. n., Gnophodes, Acraea, Charaxes, Uranothauma, Harpendyreus, Oxypalpus, Ceratrichia & Chioneigia.

Meyrick, 1900; Transvaal, Pterophoridae, Orneodidae, Tortricidae & Tineidae many spp. n., genn. n.

Schulze, 2630; Cameroon Charaxes sp. n.

Schultze, 2631; Bemerkungen über Seitz Fauna africana von "Die Grossschmetterlinge der Erde", sowie Besprechung von neuen Tagfalterformen aus Kamerun.

Strand, 2822; Ober-Guinea und Sudan 5 spp. n., Papilio, Pieris, Epiphora, Hylemera, Dasychira.

Strand, 2823; Kilwezi, 4 spp. n., Aegocera & Beralade.

Strand, 2824; Sambesi-Gebiet 9 spp. n., Sarangesa, Phasicnecus, Arcyophora, Noctuidae 2 genn. n., Polyocha, Cataclysta & Oligochroides gen. n.

Strand, 2825; 8 spp. n., Deilemera, Eohemera & Secusio.

Strand, 2830; Amphicallia sp. n.

Strand, 2831; Deutsch-Ostafrika 8 spp. n., Mylothris, Lymantriidae gen. n., Acantharctia, Metarbela & Noctuidae.

Strand, 2834; Africa or. Anaphe sp. n.

Strand, 2836; Deutsch-Ost-Afrika, 9 spp. n., Cyrtogone, Boarmia, Euchloris, Oedaleosia, Amsacta, Talis, Tyndis, Noorda & Alavona.

Strand, 2837; West Africa 4 spp. n., Acrojana, Trisulopsis & Scopariopsis genn. n.

Strand, 2839; Africa or. Lycae-nesthes 3 spp. n.

Strand, 2841; Deutsch-Ost-Afrika 4 spp. n., Cupido, Chalcidica, Eumeta & Boarmia.

Strand, 2842; Delagoa Bay, Hesperiidae 2 spp. n., gen. n.

Strand, 2843; East Africa Thaumato-poea sp. n.

Strand, 2844; Mylothris sp. n.

Strand, 2846; East Africa Xanthospilopteryx sp. n.

Swierstra, 2885; S. Africa 3 spp. n., Leptoneura, Lycaena, Phasis.

Swierstra, 2887; Check list Rhopa-locera.

Swinhoe, 2888; Uganda 6 spp. n., Parnara, Calletaera, Lophochlora, Synelis, Induna, & gen. n. Quadrifidae.

Trimen, 2948; S. Africa Phyllocampa sp. n.

Trimen, 2949; E. Africa Pseudacraea sp. n.

Walsingham, 3086; East Africa Orneodes sp. n.

Weymer, 3165; Bombyces 10 spp. n., Bunaea, Nudaurelia, Goodia, Ludia Jana & Gonobombyx.

Wichgraf, 3177; Rhodesia Acraea 2 spp. n.

Trichoptera.

Ulmer, 2977; Cameroons Protodipseudopsis gen. n.

Neuroptera.

Banks, 134; S. Africa Myrmeleonidae gen. n.

Kirby, 1533; Ruwenzori Palpares sp. n.

Navás, 2011; Mantispa 4 spp. n.

Diptera.

Austen, 74; Culicoides 3 spp. n.

Austen, 75; Muscidae 3 spp. n., gen. n.

Austen, 76; blood-sucking flies, descriptions & illustrations.

Austen, 77; Ruwenzori 12 spp. n., Proagonistes, Asarcina, Senaspis, Megaspis, Dejeania, gen. n. near Chaetolyga, Dexia & Sarcophaga.

Becker, 173; Afrique orientale, 28 spp. n.

195 Insecta.

Becker, 178; Cameroons Culicoides sp. n.

Graham, 1155; Ashanti Eretmapodites 4 spp. n.

Speiser, 2778; Kilimandjaro-Meru, Conopidae 3 spp. n.

Speiser, 2779; Kilimandjaro-Meru, Orthorhapha list, 26 spp. n.

Surcouf, 2863; Tabanus sp. n.

Surcouf, 2865; Afrique occidentale Tabanus 6 spp. n.

Surcouf, 2866; Chrysozona 2 spp. n.

Surcouf et Ricardo, 2867; Étude monographique des Tabanides d'Afrique, Tabanus.

Tavares, 2899; Zambesi Cecidomyiidae genn. et spp. n.

Theobald, 2907; Ashanti Culicidae 33 spp. n., genn. n.

Tragårdh, 2989; Natal Phoridae gen. n.

Aphaniptera.

Rothschild, 2475; Sierra Leone Loemopsylla sp. n., S. Africa Ischnopsyllus sp. n.

Waterston, 3124; S. Africa Ceratophyllus sp. n.

Hemiptera.

(Breddin, 338; Neue Rhynchoten Amphithezia.)

Distant, 701; S. Africa Ricaniinae 3 spp. n., 2 genn. n.

Distant, 708; Gold coast Sahlbergella sp. n.

Distant, 711; Ruwenzori long list.

Horváth, 1374; Africa occ. Sirthenea 2 spp. n.

Melichar, 1883; Ost-afrika, 17 spp. n., genn. n.

Reuter, 2385; Kilimandjaro Gorpis sp. n.

Reuter, 2393; 2 spp. n. Lasiochilus & Triphleps.

Reuter & Poppius, 2400; Nabidae 6 spp. n.

Schmidt, 2568; Issides 5 spp. n.

Schouteden, 2586; Africa trop. & Natal Reduviidae 24 spp. n.

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Aphidae & Coccidae.

Marchal, 1807; l'Afrique occidentale 4 spp. n.

Marchal, 1812; l'Afrique occidentale, Howardia gen. n., Aspidiotus sp. n.

Marchal, 1813; Afrique occidentale.

Tavares, 2899; Zambesi Aphis sp. n.

Anoplura.

Enderlein, 832; Haematopinus sp. n. Neumann, 2036; Haematopinus sp. n.

Thy san opter a.

Bagnall, 97; Urothrips n. gen. et n. sp.

Buffa, 396; 4 spp. n.

Psocidae.

Enderlein, 817; Transvaal 2 spp. n., gen. n.

Embiidae.

Enderlein, 829; 3 spp. n.

Termitidae.

Silvestri, 2718; Spedisione al Ruwenzori.

Plecoptera.

Enderlein, 820; Cameroons Ochthopetina gen. n.

Enderlein, 826; Transvaal Ochthopetina sp. n.

Klapálek, 1554; Neoperla 4 spp. n.

Klarálek, 1561; 2 spp. n.

Ephemeridae.

Ulmer, 2981; Caenis sp. n.

Odonata.

Förster, 922; Cameroons 2 spp. n., gen. n.

Kirby, 1533; Ruwenzori Libellulidae gen. n.

Ris, 2417; W. Africa Libellulinae 2 spp. n., Micromacromia & gen. n.

Ris, 2418; Abessinische Libellen

Sjöstedt, 2724; Kilimandjaro Meru. list, 2 gen. n., 10 spp. n.

Zavattari, 3230; Ruwenzori.

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Orthoptera.

Bolivar, 272; Cameroons, Mazarredia sp. n.

Bolivar, 274; Erythrea Parasphena sp. n.

Borelli, 291; Erythraea Anisolabis 2 spp. n.

Borelli, 295; Dermaptera dell' Uganda e del Ruwenzori.

Burr, 409; Forficulidae 4 spp. n., Hypurgus, Spongiphora, gen. n.

Burr, 410; Congo Karschiella sp. n.

Burr, 413; Africa trop. 2 spp. n., Labia & Labidura.

Giglio-Tos, 1099; Uganda e Ruwen-zori.

Griffini, 1181; Africa trop. Phasgonuridae 4 spp. n., Tetraconcha, Homocoryphus, Hexacentrus & Anabropsis.

Hancock, 1248; Africa trop. & mer. Tetriginae 7 spp. n.

Karny, 1488; Ost-afrikanische, Serpusia sp. n., Chortoicetes sp. n., Oecanthidae gen. n.

Kirby, 1534; Ruwenzori Blattidae 2 spp. n. & Locustidae gen. n.

Shelford, 2682; Africa trop. Blattidae 10 spp. n.

Shelford, 2683; 8 spp. n., Gyna Phenacisma, Gynopettis & gen. n.

Sjöstedt, 2723; Congo Gratidia sp. n., E. Africa Tarachodes sp. n.

Sjöstedt, 2725; Kilimandjarc-Meru-Mantodea list, 15 spp. n.

Sjöstedt, 2726; Kilimandjaro-Meru, Phasmodea list, 16 spp. n.

Sjöstedt, 2727; Kilimandjaro-Meru, Gryllodea, 7 genn. n. 24 spp. n.

Sjöstedt, 2728; Kilimandjaro-Meru, Locustodea list, 1 gen. n., 20 spp. n.

Sjöstedt, 2729; Kilimandjaro-Meru, Acridiidae list, 2 genn. n., 18 spp. n.

Werner, 3158; Congo Mantidae 2 spp. n., gen. n.

Madagascar and Mascarene Islands.

Coleoptera.

Alluaud, 34; Colpodes 21 spp. n. Gestro, 1080; Xiphispa sp. n.

Horn, 1369; Pogonostoma 2 spp. n. Moser, 1962; Anochilia sp. n. & Pygora sp. n.

Schwarz, 2646; Elateridae spp. n.

Sicard, 2697; Revision des Coccinellides, many spp. n.

Théry, 2912; Buprestidae 4 spp. n.

Weise, 3144; Hispinen und Coceinelliden, 23 spp. n.

Hymenoptera.

Forel, 933; Seychelles Solenopsis sp. n.

Forel, 939; La faune malgache des fourmis et ses rapports avec les faunes de l'Afrique, de l'Inde, de l'Australie etc.

Kohl, 1591; Fossoria 7 spp. n.

Krieger, 1625; Echthromorpha sp. n.

Meunier, 1893; Copal, Litus sp. n.

Meunier, 1895; Mymarinae sp. n. in copal.

Zavattari, 3227; Reunion Mutilla sp. n.

Lepidoptera.

Aurivillius, 69; 3 spp. n., Closterothrix, Pachymeta, Diplura.

Aurivillius, 72; Madagascar & Comoro islds., 6 spp. n., Cupido, Aganais, Eilema, Lenyra & Calesia.

Bastelberger, 162; Derambila sp. n.

Hampson, 1244; Rodriguez Cirphis sp. n.

Hampson, 1247; Noctuidae, Thalatha sp. n.

Oberthür, 2080; Polyptichus sp. n.

Strand, 2825; Deilemera, sp. n.

Strand, 2828; Castniidae gen. n.

Trichoptera.

Ulmer, 2977; Dipseudopsis sp. n.

Ulmer, 2984; Madagaskar und den Comoren, Anisocentropus sp. n.

Neuroptera.

Navás, 2011; Mantispa sp. n.

Weele, 3135; 4 spp. n., Acanthuclisis, Formicaleo & Leucochrysa. Diptera.

Surcouf, 2864; Tabanides nouveaux.

Hemiptera.

Bervoets, 215; Copal récent Aradus sp. n.

Distant, 700; Fulgoridae gen. n. near Nilalohita.

Distant, 710; Seychelles and neighbouring groups 16 spp. n.

Horváth, 1374; Sirthenea sp. n.

Reuter, 2385; Gorpis sp. n.

Newstead, 2047; 2 spp. n., Lecanium & Aleurodes.

Reuter & Poppius, 2400; Alloeorhynchus sp. n.

Schmidt, 2568; Tylana sp. n.

Schouteden, 2586; Margasus 2 spp.n.

šule, 2853; Psylla sp. n

Termitidae.

Holmgren, 1351; 2 spp. n.

Ephemeridae.

Ulmer, 2984; Comoro islds. 2 spp. n., Centroptilum and Hagenulus.

Odonata.

Ris, 2417; Madagascar and Nossi Bé, Callophlebia 2 spp. n.

Orthoptera.

Griffini, 1182; Gryllacris sp. n.

Griffini, 1185; Mauritius Gryllacris sp. n.

Griffini, 1191; Gryllacris 2 spp. n.

Asia, Tropical & Eastern,

Including Japan, Biluchistan, Afghanistan.

For West & Centr. Asia vide Palaearctic (h.); for North Asia vide Palaearctic (c.)

Insecta, collectively.

Green, 1171; fauna of Sigiriya Rock.

Maxwell-Lefroy, & Howlett, 1856; Indian insect life.

Willey, 3186; Notes on a trip from Ambalantota to Hambegamuwa. Coleoptera.

Annandale & Horn, 49; India, Cicindelidae list.

Arrow, 57; Ceylon, China, Burma and India, 4 spp. n., Sisyphus, Drepanocerus and Rhyparus.

Arrow, 58; India Necrodes sp. n.

Arrow, 59; India and Malay penins. 4 spp. n., Phaeochroops and Phaeochrous.

Bernhauer, 213; Japan Anthobium sp. n.

Boucomont, 303; Yunnan Enoplotrupes sp. n.

Champion, 488; China Dryotribus mimeticus.

Csiki, 624; Tonkin Scaphidium sp. n. Ericson, 843; Japan Ptenidium sp. n.

Felsche, 889; India Gymnopleurus.

Fowler, 955; India and Ceylon Languridae 12 spp. n., genn. n.

Hagedorn, 1229; India and Burma Diamerus 2 spp. n.

Hirano, 1328; Prefecture Chiba, (Japanese).

Horn, 1360; Assam Collyris sp. n.

Janson, 1424; Burma and Ass.m 3 spp. n., Diceros and Taeniodera.

Jordan, 1467; S. India Anthribidae 4 spp. n., Litocerus, Hypseus, Disphaerona and Dinectarius.

Kerremans, 1502; Tonkin, India and Siam 3 spp. n. Chrysodema and Phrixia.

Kieseritzky, 1529; Saghalien Thanatophilus sp. n.

Lameere, 1678; Ceylon and Nicobar islds. Megopis 2 spp. n.

Lewis, 1726; Nankin Carcinops sp. n. Maindron, 1790; Malabar and Yun-

nan Pristomachaerus 2 spp. n.

Moser, 1963; India, Tonkin, China,
Formosa, Halatrichia and Brahmina 9

Formosa, Holotrichia and Brahmina 9 spp. n.

Olivier, 2087; Tonkin and Siam 3 spp. n., Vesta, Lucernuta and Pteroptyx.

Olivier, 2088; China Lampyridae 3 spp. n.

Pic, 2182; Bengale Eurygenius sp. n.

Pic, 2200; India 4 spp. n., Telephorus, Pyrochroa, Formicomus. and Hylophilus.

Pic, 2201; Anthicus de Himalaya 2 spp. n.

Pic, 2206; India Idgia sp. n.

Raffray, 2306; Japan, Ceylon, Cochin China, India, Pselaphidae 14 spp. n.

Reitter, 2362; China Carabus sp. n. Ritsema, 2422; Medan Pachyteria sp. n.

Schmidt, 2559; Aphodius 2 spp. n.

Schmidt, 2560; Yunnan etc. Japan Aphodiidae 5 spp. n.

Silvestri, 2716; China and Japan Chilocorus sp. n.

Stebbing, 2797; India Scolytidae 15

Stebbing, 2798; Himalaya Chramesus sp. n.

Szombathy, 2894; Assam and Shanghai Campsosternus 2 spp. n.

Wagner, 3069; Formosa Apion 4 spp. n.

Strepsiptera.

Pierce, 2224; Japan, Siam, Annam, spp. n.

Hymenoptera.

Annandale, 48; Calcutta Alaptus sp. n.

Buysson, 481; Japan, Tonkin, China, Bhutan, Chrysididae 6 spp. n.

Cameron, 439a; India 15 spp. n., Apidae and Odynerus.

Cameron, 440; India, Ichneumonidae 7 genn. n., spp. n.

Cameron, 442; India Apidae 9 spp. n. Cameron, 447; Simla Evania sp. n.

Cameron, 458; Himalaya Salius sp. n.

Cameron, 459a; Apidae and Eumenidae spp. n.

Cameron, 460; Ceylon undescribed

Ichneumonidae and Braeonidae.

Cockerell, 535; Baltistan Bombus sp. n.

Cockerell, 555; Assam Habropoda sp. n.

Cockerell, 537; Siam Mesotrichia sp. n.

Enderlein, 816; Formosa Evaniidae 5 spp. n.

Forel, 938: Ceylon Camponotus sp. n.

Kokujev, 1594; China occ., Mongolia, Tibet, Ichneumonidae spp. nn.

Mocsáry, 1926; Japan, Tonkin and Malacca, Tenthredinidae 13 spp. n.

Nurse, 2074; India 14 spp. n., Astata, Tachytes and Tachysphex.

Silvestri, 2716; Japan Archenomus sp. n.

Turner, 2965; India 2 spp. n., My-zine and Plesia.

Wheeler, 3168; Formosa Polyrhacis sp. n. and Pheidole sp. n.

Wickwar, 3184; rare Aculeata.

Zavattari, 3226; Kashmir Eumenes sp. n.

Cockerell, 534; China and Japan Halictus of.

Lepidoptera.

Bastelberger, 159; Formosa Geometridae 3 spp. n.

Bastelberger, 160; Formosa Geometridae 36 spp. n.

Bell, 188; India Rhopalocera of the plains of India and Hill Stations of the Bombay Presidency.

Chapman, 496; India Zizera sp. n.

Druce, 744; Formosa Phengaris sp. n.

Ehrmann, 799; Burma and Japan Papilio 2 spp. n.

Fletcher, 917; Ceylon Pterophoridae 3 spp. n.

Floersheim, Ent. Rec. 21 pp. 160-164; Ceylon in December, notes.

Fruhstorfer, 1008; Formosa Chliaria sp. n.

Fruhstorfer, 1011; Siam Celaenorrhinus sp. n.

Fruhstorfer, 1026; Formosa Satarupa sp. n.

Fruhstorfer, 1032; Formosa Curetis sp. n.

(Fruhstorfer, 1034; indomalayischen Gebiet, Zendidia, Clerome.)

Hampson, 1244; Ceylon Celama 2 spp. n., Formosa Ilema sp. n., Chionaema sp. n., Diacrisia sp. n., Agrotis sp. n., Singapore Pasteosia sp. n., Madras Asura sp. n., China Diacrisia sp. n., Mythimna sp. n., Kashmir 2 spp. n., Malay penins. Elusa sp. n.

Hampson, 1247; Tibet, Noctuidae Acronycta and Daseochaeta, 2 spp. n.

Hampson, 1247; India, China, Japan Formosa Noctuidae Acronyctinae 15 spp. n.

Harcourt-Bath, 1252; Himalaya Papilionidae perpendicular distribution.

Joannis, 1443; China Eublemma sp. n.

Kon, 1603; ostasiatischen.

Manders, 1796; Ceylon Abaratha siamica.

Manson, 1799; India Sphingidae new localities.

Martin, 1834; Singapore Pieris

Matsumura, 1850; Formosa Rho-palocera.

Matsumura, 1851; Japans Pieriden, 4 spp. n.

Matsumura, 1852; Japans Danaiden und Satyriden 4 spp. n. from Formosa.

Matsumura, 1853; Formosa Sasakia sp. n.

Meyrick, 1901; India Tineidae many spp. n.

Meyrick, 1902; Eucosmidae many spp. n.

Miyake, 1916; Japan Latirostrum

Miyake, 1917; Japan 3 spp. n., Diacrisia and Creatonotus.

Oberthür, 2078; Formosa 2 spp. n., Pieris and Phengaris.

Swinhoe, 2888; India Celaenorhinus sp. n.

Warren, 3106; Kashmir to Kagoshima 10 spp. n., Pharambara, Epiplema and Geometridae.

Witt, 3200; Nimar district Rhopalocera.

Neuroptera.

Navás, 2011; India and Japan Mantispa 3 spp. n. Navás, 2012; India Dilarini gen. n.

Navás, 2016; Japan Raphidia sp. n.

Navás, 2021; Japan, Panorpidae 5 spp. nn.

Weele, 3136; Burma Glyptobasis sp. n.

Weele, 3137; 5 spp. n., Japan Sialis, China and India, Protohermes Hermes and gen. n. Neochauliodes, Korea vide Palaearctic.

Diptera.

Annandale, 47; India Diplonema sp. n.

Austen, 75; India and Ceylon Muscidae 6 spp. n., 2 genn. n.

Froggatt, 987; Ceylon Ceratitis sp. n.

Hendel, 1293; Formosa Trigonometopus sp. n., Hongkong Sepedon sp. n.

Hendel, 1295; Formosa and Ceylon Chrysomyza sp. n.

Kertész, 1507; Formosa Loxoneura sp. n.

Kertész, 1508; Formosa Stratiomyiidae gen. n. and Evaza sp. n.

Lichtwardt, 1727; India, Burma, Ceylon, Formosa, Nemestrinidae 5 spp.

Lichtwardt, 1728; Westlichen Himalaya, 3 spp. n. Pterodontia, Laphria, and Cuphocera.

Pratt, 2274; Federated Malay States Tabanidae.

Ricardo, 2407; India Tabanus 4 spp. n.

Townsend, 2933; Tachina sp. n.

Hemiptera.

Bergroth, 198; India, Aschistocoris sp. n., Euthetus sp. n., Tapinus sp. n.

Breddin, 336; Ceylon 30 spp. n.

Distant, 696; Bengal 2 spp. n., Valleriola and Hilda.

Distant, 698; India, Ceylon, Tenasserim, and Burma, Lygaeidae 40 spp. n., genn. n.

Distant, 699; India and Ceylon, 27 spp. n., Lygaeidae, Pyrrhocoridae, Phymatidae, Aradidae, Hebridae, Hydrometridae, Reduviidae, gen. n.

Distant, 700; Malay penins. and Andaman islds., Fulgoridae spp. n., Lollius and Tempsa, 2 genn. n.

Distant, 701; India gen. n. Ricaniinae.

Distant, 702; India and Ceylon Capsidae 44 spp. n., genn. n.

Distant, 703; India Tingitidae 18 spp. n.

Distant, 704; India and Ceylon 28 spp. n., Metacanthus, Tingitidae gen. n., Aradus, Reduviidae 22 spp. n. and genn. n., Salda.

Distant, 705; Nilgiri hills Capsidae 4 spp. n., 2 genn. n.

Distant, 706; China Cicadidae gen. n.

Distant, 707; India Rihana sp. n., Ceylon Terpnosia sp. n.

Distant, 709; Malacca Amissus sp. n.

Kirkaldy, 1539; China Cicadidae & Cercopidae 4 spp. n.

Kirkaldy, 1542; Malacca Cylindrostethus sp. n.

Kirkaldy, 1552; China Pentatomidae 2 spp. n.

Kuwana, 1650; Japan Coccidae 8 spp. n.

Montandon, 1934; India Geocoris sp. n.

Reuter and Poppius, 2400; China & Afghanistan Nabidae 2 spp. n.

Schmidt, 2561; India Mioscarta sp. n.

Schmidt, 2564; Cambodia Cercopidae gen. n.

Schmidt, 2568; Formosa Hemisphaerius sp. n.

Coccidae.

Green, 1164; India Kermes sp. n.

Green, 1166; India Margarodes.

Green, 1173; Ceylon many spp. n.

Termitidae.

Oshima, 2106; Japan Termites (Japanese).

Shiraki, 2694; Formosa & Japan 5 spp. n.

Perlidae.

Enderlein, 820; Tonkin & Sikkim 3 spp. n., Perla & Acroneuria.

Enderlein, 826; Tonkin & Malacca, 2 spp. n., gen. n.

Klapálek, 1554; India & Malacca 3 spp. n.

Klapálek, 1555; Tonkin Acroneuria sp. n.

Klapálek, 1558; Japan Perlinae.

Odonata.

Förster, 922; Japan Somatochlora sp. n.

Martin, 1835; India, Japan, Tonkin, 7 spp. n., Austroaeschna, Calliaeschna, Jagoria, Periaeschna gen. n., Gynacantha.

Orthoptera.

Bolivar, 272; India, Assam, Burma, Acridiidae 6 spp. n., Eugavialidium, Mazarredia, Coptotettix, & Xistrella gen. n.

Borelli, 293; Kashmir Forficulidae 2 spp. n.

(Carl, 466; Neue Locustodeen von Ceylon und Borneo.)

Hancock, 1248; India, Ceylon & Malay penins., Tetriginae 8 spp. n.

Shelford, 2682; Ceylon & Annam Anaplectoidea 2 spp. n.

Shelford, 2686; India Epilampra sp. n.

Collembola.

Börner, 257; Japans Collembolen fauna, 30 spp. n.

Asiatic Archipelago.

Java to New Guinea, incl. Philippines.

Insecta, collectively.

Rouffaer and others, 2499; Neu-Guinea, Hymenoptera & Neuropteroidea Listes.

Coleoptera.

Arrow, 58; Java Episcapha sp. n.

Arrow, 59; Hybosorinae 6 spp. n.

Csiki, 624; Sumatra Trochoideus sp. n., New Guinea Scaphidiidae 2 genn.

Everts, 848; Sumatra Dascillidae 3 spp. n., genn. n.

Felsche, 869; New Guinea Liparochrus sp. n.

Fowler, 955; Borneo Languriidae sp. n.

Hagedorn, 1229; Sumatra Scolytidae 3 spp. n.

Horn, 1360; Borneo Cicindela 2 spp.

Horn, 1363; Philippines Prothyma 2 spp. n.

Kerremans, 1502; Buprestidae 8 spp.

Lameere, 1678; Borneo & Sumatra Megopis 3 spp. n.

Lewis, 1726: Tenimber Platylister sp. n., Borneo Platysoma sp. n.

Möllenkamp, 1928; New Guinea Lucanidae 2 spp. n.

Möllenkamp, 1929; Sumatra Aegus sp. n.

Moser, 1962; 6 spp. n. Thaumastopoeus, Chalcophasis and Protactia.

Moser, 1963; Java Holotrichia 2 spp. n. & Dammer isld. Brahmina sp. n.

Pic, 2206; Sumatra Idgia sp. n.

Ritsema, 2421; Helota synopsis

Ritsema, 2423; Borneo Pachyteria

Ritsema, 2424; Java Adelotopus sp. n.

Schmidt, 2559; Aphodiini 5 spp. n.

Spaeth, 2776; Cassididae collected by the Dutch New Guinea Expedition 1907.

Szombathy, 2894; New Guinea Elateridae 2 spp. n., Lacon & Monocrepidius.

Weise, 3144; New Guinea Xiphispa sp. n.

Strepsiptera.

Pierce, 2224; Philippines sp. n.

Hymenoptera.

André, 41; Java Mutilla 2 spp. n.

Cameron, 441; Borneo Peramhlynotus sp. n.

Cemeron, 443; Borneo 3 spp. n., Philomedes, Schizaspidia & Metapelma.

Cameron, 444; Borneo Braconidae gen. n.

Cameron, 445; Borneo Proctotrypidae gen. n.

Cameron, 446; Borneo Ichneumonidae 5 spp. n.

Cameron, 447; Borneo Evania 2 spp.

Cameron, 448; Borneo Nomada sp. n.

Cameron, 449: Borneo Mutilla 2 spp. n.

Cameron, 45); Borneo Discolia sp. n. & Tiphia sp. n.

Cameron, 451; Borneo Pompilus & Salius, 4 spp. n.

Cameron, 452; Borneo Zeuthus sp. n.

Cameron, 453; Borneo Chalcididae 2 genn. n.

Cameron, 451; Borneo Eucharinae 7 spp. n.

Cameron, 457; Borneo 2 spp. n., Pison & Notogonia.

Cameron, 459; Borneo Braconidae 12 spp. n.

Cockerell, 534; Xmas island Lithurgus sp. n.

Cockerell, 535; Amboina Crocisa

Enderlein, 821; Sumatra 2 spp. n., Pseudagenia & Paragenia.

Forel, 933; Labuan Camponotus sp. n.

Forel und Jacobson, 944; Java und Krakatau Ameisen 3 spp. n.

Friese, 977; Neu-Guinea Bienenfauna many spp. n.

Krieger: 1625; Echthromorpha 4

Lange, 1689; New Guinea Tremex sp. n.

Mocsáry, 1926; Tenthredinidae 6 spp.

Wheeler, 3168; Philippines 2 spp. n., Iridomyrmex & Polyrhacis.

Lepidoptera.

Bastelberger, 165; Moluccas Rambara sp. n.

Bethune-Baker, 219; New Guinea 3 spp. n., Morphotenaris, Candalides and Hypochrysops.

Chapman, 496; Java Zizera sp. n.

Druce, 748; New Guinea 3 spp. n., Diacrisia, Nadata and Pterocyclophora.

Druce, 749; Borneo Eublemma sp. n.

Fruhstorfer, 1009; New Guinea Danais sp. n.

Fruhstorfer, 1011; Celebes Celaenorrhinus sp. n.

Fruhstorfer, 1014; Borneo and Nias 2 spp. n., Plastingia and Tagiades.

(Fruhstorfer, 1035; Neue Amathusiinae.)

Hampson, 1244; 4 spp. n., Hyalaethea, Celama, Elusa.

Kenrick, 1499; New Guinea Delias 10 spp. n.

Lathy, 1692. New Guinea Morphotenaris sp. n.

Martin, 1832. Ceram Ideopsis sp. n.

Martin, 1833. Java Terpander sp. n.

Piepers & Snellen, 2221; Java Pieridae.

Swinhoe, 2888; 10 spp. n., Hasora, Synegia, Hypochrosis, Loxotephria, Ectropis, Callidula, Cleis, Scopelodes, Hyblaea, Ophiusa.

Warren, 3106; New Guinea Bordera sp. n.

Weymer, 3165; Sumatra Tripura sp. n., Celebes Antheraea sp. n.

Trichoptera.

Ulmer, 2977; 3 spp. n., Borneo Dipseudopsis, Java Amphipsyche and Diplectrona.

Ulmer, 2978; Java 6 spp. n.

Neuroptera.

Navás, 2011; Sumatra, Philippines, and New Guinea, Mantispa 3 spp. n.

Weele, 3137; Sumatra Hermes sp. n.

Weele, 3138; Malay Archipelago, 12 spp. n., Planipennia and Panorpatae.

Weele, 3139; Neuropteroidea der holländischen Neu-Guinea-Expedition.

Diptera.

he ne .

Banks, 128; Philippines Culicidae 4 spp. n.

Brues, 384; Philippines Aphiochaeta 2 spp. n.

Docters van Leeuwen & Meyere, 723; Agromyza sp. n.

Knab, 1574; Philippines 2 spp. n., Mansonia and Aedeomyia.

Lichtwardt, 1727; New Guinea Adriadops sp. n.

Ludlow, 1763; Philippines 2 spp. n., Anopheles and Pseudouranotaenia.

Ludlow, 1764; Philippines Oculiomyia sp. n.

Ludlow, 1765; Philippines, novelties and 2 spp. n., Taeniorhynchus and Uranotaenia.

Meyere, 1898; 2 genn. n., Culicidae and Milichiinae.

Meyere, 1899; 6 spp. n. Ceratopogon, Culicoides & Phlebotomus.

Stein, 2800; Javanische Anthomyiden, 28 spp. n.

Hemiptera.

Banks, 129; Philippines 12 spp. n.

Breddin, 336; Borneo Dysdercus, sp. n.

(Breddin, 339; Übersicht Micronecta Arten.)

Distant, 700; Sumatra & Gilolo Tylana 2 spp. n.

Distant, 701; Aru Varcia sp. n., Ceram Ricania sp. n., Borneo Pochazia 2 spp. n.

Distant, 707; Philippines Rihana sp. n.

Distant, 709; 14 spp. n., Poecilocoris, Alcimocoris, Rhynchocoris, Embolosterna, gen. n. near Oxylobus, Petillia, Carcinochelis, Tribelocephala, Cryptotympana, Prasia, Lembeja & Philagra.

Horvath, 1375; N. Guinea Clerada 2 spp. n.

Kirkaldy, 1542; Philippines Ptilomera sp. n.

Montandon, 1933; Sumatra Cercotmetus sp. n.

Reuter, 2385; Nias isld. & New Guinea, Gorpis 2 spp. n.

Reuter, 2399; Java Capsidae 5 spp. n.

Reuter & Poppius, 2400; Nabidae 6 spp. n.

Schmidt, 2531; Java, Sumatra & New Guinea, Cercopidae spp. n., Considia, Thoodzata, Eoscarta & Notoscarta.

Schmidt, 2532; Borneo & Sumatra 2 spp. n.; Sudra & Parasudra.

Schmidt, 2533; Sumatra & Obi Cercopidae z genn. n.

Schmidt, 2564; Cercopidae 2 genn. n., 7 spp. n.

Schmidt, 2535; Sumatra Dalader sp. n.

Schmidt, 2538; Issides 10 spp. n.

Thysanoptera.

Bagnall, 105; 7 spp. n. gen. n.

Plecoptera.

Enderlein, 820; Java & Sumatra gen. n. 5 spp. n.

Enderlein, 823; Java gen. n.

Enderlein, 826; Borneo Ochthopetina sp. n.

Klapálek, 1554; Java, Borneo, Philippines, Neoperla 5 spp. n.

Odonata.

Martin; 1835; 5 spp. n., Amphiaeschna, Linaeschna gen. n., Platacantha gen. n. and Heliaeschna.

Martin, 1836; 2 spp. n. Onychogom-phus and Argiolestes.

Ris, 2417; Libellulinae 2 spp. n., Celebes Lyriothemis, Borneo gen. n.

Weele, 3140; Dutch New Guinea Exp., 1907, Lestes sp. n.

Orthoptera.

Bolivar, 272; Acridiidae 5 spp. n., Eugavialidium, Criotettix, Systolederus, Mazarredia, and Kraengia gen. n.

Burr, 409; Lombok Eparchus sp. n., Borneo Opisthocosmia sp. n.

Burr, 415; New Guinea Expedition, Hamaxus sp. n.

Griffini, 1179; Gryllacris 6 spp. n.

Griffini, 1183; Sumatra Tympanophoridae gen. n.

Griffini, 1185; Borneo Gryllacris sp. n.

Griffini, 1189; N. Guinea Gryllacris 2 spp. n.

Griffini, 1192; New Guinea Gryllacris 2 spp. n.

Griffini, 1195; New Guinea Gryllacris 3 spp. n.

Hancock, 1248; New Guinea islds. and Borreo Tetriginae 6 spp. n.

Jordan, 1469; Forficulid on bat.

Rehn, 2339; Sumatra 16 spp. n., genn. n.

Shelford, 2682; Sumatra Areolaria sp. n., Borneo Pseudothyrsocera sp. n.

Shelford, 2683; Borneo Methana 2 spp. n.

Zacher, 3217; Locustidae 5 spp. n. 2 genn. n.

Australia.

Insecta, collectively.

Clelani & Giles, 516a; N.W. Australia list.

Coleoptera.

Arrow, 59; 6 spp. n., Phaenognatha and Liparochrus.

Blackburn, 243; Heteronyx many spp. n., Aneurystypus sp. n.

Carter, 473; Tenebrionidae 19 spp. n.

Champion, 488; Cossonidae no velties.

Felsche, 869; Cape York Coptodactyla 2 spp. n.

Ferguson, 876; Psalidura 22 spp. n.

Goudie, 1144; Victoria Carabidae annotated list.

Lameere, 1679; Dorx and Pithanotes withdrawn.

Lea, 1696; Curculionidae many spp., n.

Lea, 1697; Australia and Tasmania, Malacodermidae revision, many spp. n.

Lea, 1698; Cryptorhynchides spp. n. and genn. n.

Lea, 1699; Austral. and Tasm. gen. n. Trichopterygidae.

Lea, 1700; Curculionidae 13 spp. n., 2 genn. n.

Lea, 1700a; Curculionidae 9 spp. n., Catastygnus, Eniopea, Pachyura, Haplonyx, Sigastus, Lybaeba, Exithius and Pseudapries. Lea, 1701; Queensland Belus sp. n. Pic, 2210; Paussoptinus sp. n.

204 Insecta.

Raffray, 2306; Pselaphidae 3 spp. n.

Raffray, 2306; Psetaphidae 3 spp. n. Schmidt, 2560; Dialytes sp. n.

Sloane, 2743; Cicindelidae 3 spp. n.

Hymenoptera.

Bingham, 238; Queensland Mutillidae 2 spp. n.

Cockerell, 534; Apidae 2 spp. n., Hyleoides, Tetralonia.

Cockerell, 535; Prosopis 5 spp. n.

Friese, 977; Queensland, Anthidium, Megachile sp. n.

Turner, 2964; Thynnidae 8 spp. n.

Turner, 2965; Townsville Anthobosca sp. n.

Turner, 2966; Scolia and Campsomeris 4 spp. n.

Wheeler, 3169; Victoria, Formicidae.

Lepidoptera.

Hampson, 1214; spp. n., Nola, Chionaema.

Hampson, 1247; Noctuidae Acronyctinae 7 spp. n.

Lyell, 1774; Victorian alps, list.

Pfitzner, 2175; W. Australia Charagia sp. n.

Turner, 2961; Noctuidae 25 spp. n. Waterhouse, 3122; Miletus 3 spp. n.

Neuroptera.

Banks, 136; Queensland Hemerobiidae 10 spp. n., genn. n.

Diptera.

Coquillett, 598; Dacus sp. n.

Hermann, 1300; Apiocera sp. n.

Lichtwardt, 1727; Queensland Nemestrinidae gen. r.

Aphaniptera.

Rothschild, 2476; Echidnophaga sp. n.

Rothschild, 2477; Parapsyllus sp. n.

Hemiptera.

Bergroth, 198; 3 spp. r., Spudaeus and Capyella, Tasmania Acantholybus sp. n.

Bergroth, 201; Australia and Tasmania 4 genn. n., Pentatomidae, Myodochidae and Reduviidae.

Bergroth, 202; Choerocydnus sp. n.

Distant, 701; Ricania 3 spp. n.

Horváth, 1374; Sirthenea sp. n.

Horváth, 1375; Clerada 2 spp. n.

Jacobi, 1409; 11 spp. n., gen. n.

Reuter, 2398; Sidney Campsoscytus sp. n.

Termitidae.

Silvestri, 2717; genn. n., spp. n.

Plecoptera.

Enderlein, 826; gen. n.

Odonata.

Martin, 1835; Aeschninae 4 spp. n., Austroaeschna, Calliaeschna.

Tillyard, 2920; Cordulinae, 5 spp. n., genn. n.

Tillyard, 2921; Gomphinae 5 spp. n.

Orthoptera.

Griffini, 1185; 2 spp. n. Paragryllacris and Camptonotus.

Hancock, 1248; Tetrix sp. n.

Shelford, 2683; Revision of Polyzosteria group, 13 spp. n.

Shelford, 2687; Blattidae 11 spp. n.

North America.

Insecta, collectively.

†Cockerell, 528; Tertiary Neuroptera and Trichoptera 4 spp. n.

†Cockerell, 529; Tertiary Orthoptera and Diptera 4 spp. n.

†Cockerell, 532; Colorado, Diptera and Hymenoptera 6 spp. n.

†Cockerell, 564; Colorado spp. n.

Davis, 662; New Jersey.

Harrington and others, Ottawa Nat. pp. 30 & 31, 50 & 76; Ottawa short list.

Johnson, 1460; Labrador.

Murtfeldt, 1989; Missouri 1908.

†Rohwer, 2431; Three new fossils from Florissant.

†Sellards, 2655; Permian insects Megasecoptera, Oryctoblattinidae and Protorthoptera, 43 spp. n.

Sherman, 2690; North Carolina.

Swinton, 2889; Canada, British insects in.

Tucker, 2951; Apterous and orthopterous, Texas.

Webster, 3132; Iowa.

Worsham, 3205; Georgia.

Coleoptera.

Aldrich, 26; Leptinotarsa decemlineata.

Bernhauer, 208; Aleocharini 24 spp. r. Atheta.

Blaisdell, 244; A monographic revision of the tribe *Eleodiini* inhabiting the United States, Lower California, and adjacent islands; numerous spp. n.

Bowditch, 323; United States Pachybrachys 34 spp. n.

Casey, 474; United States 29 spp. n., Omus, Cicindela, Omophron, Blethisa, Pseudomorpha, Platycerus, Coenonycha, Phobetus, Dyscinetus, Ligyrus, Valgus, and gen. n. near Trigonopeltastes.

Casey, 475; Studies in Buprestidae, many spp. n.

Chagnon, 481; Labrador list.

Chagnon, 482; Quebec Buprestidae.

†Cockerell, 530; Eocene Wyoming Syntomostylus sp. n.

Easton, 789; Fall river Massachusetts list.

Fall, 854; United States South-west and Lower California 14 spp. n., Canthydrus, Scymnus, Bostrichus, Ataenius, Eburia, Metaleptus, Saxinis, Statira, Macrobasis, Cantharis, Anthonomus, Cryptorhynchus, Madarellus and Cossonus.

Fall, 855; Ochodaeus 2 spp. n.

Fall, 856; Diplotaxis, 50 spp. n.

Fall, 857; Platycholeus sp. n.

Fenyes, 874; California gen. n. Aleocharinae.

Fenyes, 875; Aleocharinae 9 spp. n. Frost, 992; Framingham Mass.

Gates, 1064; Massachusetts Rhynchites bicolor.

Greene, 1176; Zophobas morio Florida.

Hopkins, 1358; Dendroctonus 6 spp. n.

Knab, 1578; Canada and U.S. Calligrapha 3 spp. n.

Knaus, 1583; Kansas additions 38 spp. and varr.

Leng, 1710; Clerus sp. n.

Manee, 1797; N. Carolina.

Morris, 1958; Ontario collecting at flowers.

Nunenmacher, 2068; 2 spp. n., Coccinella and Brachyacantha.

Pierce, 2223; Curculionidae 12 spp. n.

Schaeffer, 2537; Chiefly Arizona, 24 spp. n.

Schaeffer, 2538; Cerambycidae 4 spp. n.

Schaeffer, 2539; Florida 3 novelties.

Scott, 2647; Disonycha Ohio.

Sherman, 2691; Labrador.

Webster, 3130; Phytonomus.

Wellman, 3151; Calospasta sp. n.

†Wickham, 3181; Florissant, 7 spp. n.

Strepsiptera.

Pierce, 2224; many spp. n., genn. n.

Hymenoptera.

Beutenmüller, 223; 3 spp. n., Rhodites and Andricus.

Beutenmüller, 226; Philonix sp. n.

Bradley, 327; California Evaniidae gen. n. and Foenus sp. n.

Brues, 383; North America parasitic Hymenoptera, 9 spp. n.

Buysson, 431; California Holochry-sis sp. n.

Cockerell, 533; Texas and Nebraska Apidae 6 spp. n.

Cockereil, 536; Colorado Nomada sp. n.

Cockerell, 538; United States Apidae 3 spp. n., Melissodes and Osmia.

Cockerell, 540; New Mexico Perdita sp. n.

Gockerell, 543; United States 3 spp. n., Colletes, Megachile, and a fossil †Melitta.

Cockerell, 514; Coelioxys 3 spp. n. †Cockerell, 545; Colorado two bees.

Cockerell, 546; Diadasia sp. n.

Cockerell, 551; Colorado and New Mexico, Nomada and Osmia, 5 spp. n.

Cockerell, 553; Texas Tetralonia and Melissodes, 3 spp. n.

Cockerell, 567; Emphoropsis sp. n.

Crawford, 614; Ottawa Megorismus sp. n.

Crawford, 615; Florida Leucospis sp. n., Texas gen. n. Pteromalini.

Crawford, 616; Maryland, new family of parasitic *Hymen*.

Crawford, 617; U.S. Tetrastichus 2 spp. n.

Crosby, 622; New York 2 spp. n., Prodecatoma and Eurytoma.

Ducke, 761; 2 spp. n., Epeoloides and Dioxys.

Gahan, 1050; Maryland Coelopisthia sp. n.

Girault, 1121; Camptoptera catalogue 1 sp. n.

Girault, 1123; Mymaridae gen. n.

Girault, 1124; Aphelinus sp. n.

Girault, 1125; The chalcidoid parasites of Eulecanium 3 spp. n.

Girault, 1126; Oligosita sp. n.

Girault & Sanders, 1128; Nasonia sp. n.

Hertzog, 1307; Euceros sp. n.

Kieffer, 15:5; Proctotrupidae 52 spp. n.

Kieffer, 1520; Cynipidae 6 spp. n.

Lovell, 1747; Osmia and Sphecodes, 3 spp. n.

Lovell, 1748; The bees of Virginia— Prosopis, Sphecodes, 3 spp. n.

MacGillivray, 1783; Synopsis of Scolioneurinae, 4 spp. n.

MacGillivray, 1784; Caliroa 10 spp. n. and gen. n. near Phyllotoma.

Macgillivray, 1785; New Jersey Poecilostoma sp. n. and Schizocerus sp. n.

Rohwer, 2432; U.S. Tenthredinidae 17 spp. n., Dolerus, Schizocerus, Hylotoma, Macrophya, Eriocampa, Pachynematus, Amauronematus, Pristiphora and Euura.

Rohwer, 2433; United States 5 spp. n., Pteronus, Blennocampa, Neocharactus, Monophadnus and Labidia.

Rohwer, 2434; United States Tenthredo 7 spp. n.

Rohwer, 2435; Western U.S., 6 spp. n. Erythraspides, Tenthredo and Allantus.

Rohwer, 2436; Western Macrophya, 8 spp. n.

Rohwer, 2437; California 4 spp. n, Periclista, Aphanius and gen. n. Blennocampinae.

Rohwer, 2438; Crabro 7 spp. n.

Rohwer, 2439; Tachytes 6 spp. n.

Rohwer, 2440; Wasps, 3 spp. n.

Rohwer, 2441; Psiloglossa sp. n.

Rohwer, 2442; Fossoria 4 spp. n.

Rohwer, 2443; Trypoxylon 5 spp. n. Rohwer, 2444; Cryptocampus 4 spp. n.

Rohwer, 2445; Fossoria 40 spp. n., Proctotrypes and Lysiphlebus 2 spp. n.

Rohwer, 2447; 6 spp. n. Hedychridium and Chrysis.

†Rohwer, 2448; Ceropalidae 2 spp. n. Swenk, 2876; Anthophora 3 spp. n.

Viereck, 3026; Andrena sp. n.

Viereck, 3027; 5 spp. n. Helorimorpha, Pimpla, Cryptus and Sphecodes.

Viereck, 3028; United States 11 spp. n., Braconidae, Fossoria and Apidae, genn. n.

Viereck, 3029; Texas Andrena 2 spp.

Wheeler, 3170; Formicidae 10 spp. n. Wheeler, 3171; Myrmecocystus sp. n.

Lepidoptera.

Bales, 106; Pickaway county list.

Bastelberger, 158; Texas Tephrinopsis sp. n.

Beutenmüller, 222; Sesia 3 spp. n.

Biederman, 235; Catocala sp. n.

Bird, 240; New York Papaipema sp. n.

Brehme, 340; New Mexico Anisota sp. n.

Brehme, 341; New Jersey notes.

Brimley, 255; N. Carolina, list.

Busck, 417; United States Tineidae 13 spp. n., genn. n.

Cook & Watson, 591; Texas Incisalia

Coolidge, 592; Santa Clara, Rhopa-locera supplement.

Dyar, 770; New York Acrobasis sp. n.
Dyar, 771; California and Florida
spp. n., Selidosema, Stenaspilates, Argyria, Hypopta and gen. n. Pyralidae.

Forbes, 930; New England notes.

Gibson, 1093 & 1095; Ottawa Psilocorsis sp. n.

Grossbeck, 1200; Arizona and S. California Geometridae 7 spp n., Hydriomena, Coenocalpe, Tornos, Selidosema, Cleora and Stenaspilates.

Hampson, 1247; Canada Acronycta sp. n.

Minot, 1912; Massachusetts and Maine butterflies.

Muttkowski, 1998, 1999; Wisconsin Lep. of.

Muttkowski, 2000; Tineoidea.

Pearsall, 2143; Catskill mts. 2 spp. n. Mesoleuca and Cleora.

Pearsall, 2144; Arizona Stammodes sp. n.

Pearsall, 2145; Geometridae 13 spp.

Reiff, 2347; Boston Zeuzera pyrina. Rothschild, 2482; Halisidota 2 spp.

Rothschild, 2487; Oregon Hemihyalea sp. n., Colorado Halisidota sp. n.

Sleight, 2735; New Jersey, Catocala herodias.

Smith, 2748; Noctuidae 20 spp. n.

Swett, 2878; Arizona and Colorado Hydriomena 5 spp. n.

Taylor & Gibson, Canad. Ent. 41 p. 423; Canada Sphinx perelegans novelty.

Tucker, 2953; Plano Texas incidental captures.

Williams, 3190; Mt. Shasta region.

Winn, 3197; Montreal Rhopalocera 2 novelties.

Trichoptera.

Banks, 132; 2 spp. n.

Vorhies, 3050; Wisconsin Trichoptera spp. n. etc.

Neuroptera.

†Cockerell, 541; Florissant Palaeo-chrysa 2 spp. n.

Navás, 2017; Psectra sp. n.

Diptera.

Aldrich, 25; Ottawa Rhagoletis sp. n.

Back, 94; America, north of Mexico, Leptogastrinae and Dasypogoninae 20 spp. n.

Banks, 181; Systropus sp. n.

†Cockerell, 527; Tertiary Diptera 6 spp. n.

Cockerell, 539; Colorado, Rhopalomyia sp. n.

†Cockerell, 554; Miocene Colorado Bibio sp. n.

†Cockerell, 562; Florissant Miocene Glossina sp. n.

†Cockerell, 563; gen. and spp. Florissant, Colorado, gen. n.

Coquillett, 596; Texas Hermetia sp.n. Doane, 719; California Tipula 3 spp.

Dyar, 773; Dublin, New Hampshire, Mansonia perturbans.

Dyar & Knab, 778; Canada Aedes sp. n.

Dyar & Knab, 779; Culex sp. n.

Dyar & Knab, 781; Arkansas Aedes sp. n.

Dyar & Knab, 782; Culicidae sp. n.

Felt, 872; Cecidomyiidae 37 spp. n.

Hendel, 1294; Colorado Oedopa sp. n. Hine, 1325; Asilus 23 spp. n.

Johannsen, 1448; Mycetophilidae monograph, 12 spp. n.

Johannsen, 1450; United States Mycetophilidae 6 spp. n.

Johnson, 1455; Tipulidae 15 spp. n.

Johnson, 1458; Trypetidae, distribution in U.S. Euaresta sp. n., New Jersey, p. 114.

Ludlow, 1763; Anopheles perplexens withdrawn.

Townsend, 2933; Tachinidae 6 spp. n., genn. n.

. Williams, 3188; Cecidomyia sp. n.

Aphaniptera.

Fox, 956; San Francisco.

Fox, 957; Ceratophyllus sp. n.

Fox, 958; Dolichopsyllus sp. n.

Fox, 960; Odontopsyllus sp. n.

Mitzmain, 1915; California list.

Rothschild, 2475; California Ceratophyllus 2 spp. n.

Hemiptera.

Ball, 112; United States 11 spp. n., Phlepsius, Eutettix and Scaphoideus.

Ball, 113; California Jassidae 9 spp.

Ball, 114; Jassidae 10 spp. n.

Ball, 115; Fulgoridae 9 spp. n.

Banks, 135; U.S. Emesidae 7 spp. n.

Berger, 196; Florida Aleyrodes sp. n.

†Cockerell, 554; Colorado Miocene 3 spp. n. Coreidae, Cydnidae and Fulgoridae.

Hahn, 1232; Brood v Tibicen septendecim Porter county, Indiana, during 1905.

Heidemann, 1273; Tingitidae and Leptoglossus, 6 spp. n.

Heidemann, 1274; Aradidae 2 spp. n.

Johannsen, 1449; North American Henicocephalidae.

Patch, 2137; United States Psylla sp. n.

Reuter, 2386; Capsiden 49 spp. n.

šule, 2854; Colorado Trioza sp. n.

Torre Bueno, 2932; European in America.

Torre Bueno, Canad Ent. 41 p. 172; Van Duzee's Florida list.

Van Duzee, 2993; Florida 29 spp. n.

Van Duzee, 2995; 2 spp. n., Brachymena and Perigenes.

Van Duzee, 2997; Heteroptera.

Aphidae and Coccidae.

Cockerell & Robbins, 569; 2 spp. n., Aspidiotus and Chionaspis.

Davidson, 655; California Aphid 5 spp. n.

Davis, 657; Aphid 2 genn. and spp. n.

Gillette, 1105; Aphis sp. n.

Hayhurst, 1269; Hyalopterus sp. n.

Patch, 2133; Pemphigus sp. n.

Patch, 2139; Microparsus sp. n.

Patch, 2141; Maine Chermes 3 spp. n.

Severin & Severin, 2667; list of the Coccidae of Wisconsin.

Wilson, 3196; Aphid. new records.

Thysanoptera.

Hood, 1356; Phloeothripidae 2 spp. n.

Hood, 1357; sp. n.

Moulton, 1969; California Euthrips sp. n.

Shull, 2696; U.S. 5 spp. n.

Psocidae.

Enderlein, 815; United States, 2 spp. n.

Perlidae.

Klapálek, 1555; Acroneuria 10 spp. Klapálek, 1559; United States Acroneuria, sp. n.

Odonata.

†Cockerell, 554; Miocene Colorado Enallagma sp. n.

Martin, 1835; Florida, Tricanthagyna sp. n.

Williamson, 8191; Somatochlora sp.

Williamson, 3192; Macromia 3 spp.

Wilson, 3193; Mississippi valley.

Orthoptera.

Cockerell, 558; Diestrammena marmorata in Colorado, p. 79.

Davis, 659; New Jersey Orchelimum sp. n.

Davis, 663; New Jersey Cycloptilum sp. n.

Hancock, 1248; Tetriginae 3 spp. n. Hebard, 1270; December south Georgia.

Hebard, 1271; Keeweenaw bay Mich. Hebard, 1272; Scapteriscus vicinus Georgia.

†Matthew, 1854; New Brunswick shales 2 spp. n., gen. n.

Morse, 1959; Massachusetts Melanoplus sp. n.

Rehn, 2337; Diapheromera Mexico. Rehn & Hebard, 2341; New Mexico

and western Texas, 6 spp. n.

Rehn & Hebard, 2342; California

and Nevada Acridiidae and Mantidae 6 spp. n.

Walker, 3081; Northern Ontario Orthopt. with Nomotettix sp. n.

Thysanura and Collembola.

Jackson, 1408; Lepidocyrtus 2 spp. n. Silvestri, 2715; New York Eosentomon sp. n.

Central America.

Coleoptera.

Arrow, 58; 3 spp. n. Ethelema and Mycotretus.

Bowditch, 323; Mexico and Brit. Honduras Pachybrachys 3 spp. n.

Casey, 474; Mexico Cicindela 3 spp.

Casey, 475; Mexico and Honduras Buprestidae 3 spp. n.

Champion, 490; Curculionidae many spp. n. and genn. n.

Fall, 854; Lower California 11 spp. n. Grouvelle, 1204; Mexico Corticaria sp. n.

Kerremans, 1502; Mexico Halecia sp. n.

Kuhnt, 1647; Mexico Brachysphoenus sp. n.

Olivier, 2092; Panama Megaloph-thalmus sp. n.

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Schmidt, 2530; Mexico Aphodius sp. n.

Schubert, 2619; Mexico Staphylinidae 20 spp. n.

Spaeth, 2773; 2 spp. n., gen. n. near Chelymorpha.

Spaeth, 2774; Ctenochira sp. n. and Omaspides sp. n.

Weise, 3146; Mexico Hyperaspis sp.

Strepsiptera.

Pierce, 2224; Guatemala sp. n.

Hymenoptera.

Forel, 936; Guatemala Formicidae 7 spp. n.

Kieffer, 1515; Nicaragua Aclista sp. n.

Kieffer, 1522; Belize Macroteleia sp. n.

Turner, 2965; Guatemala Typhoctes sp. n.

Vachal, 2989; Mexico Diphaglossa sp. n.

Viereck, 3028; Mexico Apidae gen. n. Wheeler, 3173; Mexico Formicidae 4 spp. n.

Lepidoptera.

Dyar, 771; Mexico 15 spp. n.

Dyar, 774; Mexico Euclea sp. n.

Hampson, 1244; spp. n., Syntomidae gen. n.

Hampson, 1247; Noctuidae Acronyctinae 8 spp. n.

Rothschild, 2482; Arctiinae spp. n., Hemihyalea, Amastus, Halisidota.

Rothschild, 2485; Mexico and Costa Rica 6 spp. n., Robinsonia and Automolis.

Rothschild, 2487; Arctiidae 6 spp. n. Walsingham, 3085; Lavernidae and Gelechiidae, 30 spp. n., genn. n.

Warren, 3104; Costa Rica Scotura sp. n.

Diptera.

Dyar & Knab, 778; Panama Culex sp. n.

Dyar & Knab, 779; Panama Culex sp. n.

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Dyar & Knab, 781; Panama Wyeo-myia 2 spp. n.

Dyar & Knab, 782; Culicidae spp. n.

Hendel, 1287; Mexico Euxesta sp. n.

Hendel, 1288; Mexico Megalaemyia gen. n. Pterocallinae sp. n.

Hendel, 1294; Mexico Eumecosomyia sp. n.

Aphaniptera.

Rothschild, 2477; Nicaragua Ceratophyllus sp. n.

Hemiptera.

Ball, 115; Mexico Fulgoridae gen. n. Breddin, 335; Yucatan Ochlerus sp.

Cockerell & Robbins, 568; Nicaragua Mesolecanium sp. n.

Horvath, 1374; Costa Rica, Sirthenea sp. n.

Reuter, 2396; Mexico Capsidae 35 spp. n.

Schmidt, 2586; Costa Rica Diestostemma 2 spp. n.

Schmidt, 2568; Costa Rica Thionia sp. n.

Psocidae.

Enderlein, 815; Mexico 3 spp. n.

Plecoptera.

Enderlein, 813; Guatemala Neoperla sp. n.

Odonata.

Calvert, 434; Neocordulia sp. n.

Calvert, 435; Composition and ecological relations of fauna.

Osburn, 2104; The Odonata of the Biologia Centrali-Americana.

Orthoptera.

Bolívar, 272; Mexico and Costa Rica, Acridiidae 2 spp. n.

Bolívar, 274; Mexico Sphenarium sp. n.

Borelli, 292; Forficulidae Mexico gen. n., 2 spp. n.

Borelli, 294; Costa Rica Forficulidae 9 spp. n.

Rehn, 2336; British Honduras Orocharis sp. n. Thysanura.

Silvestri, 2715; Mexico Japygidae 3 spp. n.

Antilles.

Incl. Bermudas; excl. Trinidad.

Coleoptera.

Cameron, 439; Haiti Myrmolamia sp. n.

Champion, 488; Cuba Gononotus lutosus.

Champion, 490; St. Vincent Curculionidae Barina 6 spp. n., Cuba gen. n.

Felsche, 869; Haiti Athyreus sp. n.

Pic, 2199; Supplément à la liste des Coléoptères de la Guadeloupe.

Raffray, 2306; Martinique Melbasp. n.

Strepsiptera.

Pierce, 2224; Santo Domingo sp. n.

Hymenoptera.

Cockerell, 535; Jamaica Augochlora sp. n., Tetrapedia sp. n., Melissa azurea.

Kieffer, 1515; Cuba Camptopsilus sp. n.

Lepidoptera.

Hampson, 1244; Cuba Seripha sp. n.

Hampson, 1247; Jamaica, Prodenia sp. n. and Galgula sp. n., Bahamas Haiti and Cuba Monodes 3 spp. n.

Rothschild, 2482; Jamaica Ischnocampa sp. n.

Rothschild, 2487; Jamaica Halisidota sp. n.

Walsingham, 3085; Jamaica Cosmopteryx sp. n.

Warren, 3104; Dominica gen. n. near Racheospila, Cuba Sericoptera sp. n.

Trichoptera.

Ulmer, 2977; Cuba Chimarrha sp. n.

Diptera.

Dyar & Knab, 780; Cuba Culex sp. n. Dyar & Knab, 782; Culicidae spp. n.

Felt, 870; Cecidomyiidae 3 spp. n.

Newstead, 2044; Jamaica diseaseproducing Diptera, Atylotus sp. n. Hemiptera.

Distant, 697; Dominica and Jamaica Tomaspis 2 spp. n

Distant, 701; Epitemna marginata withdrawn.

Lindinger, 1731; Jamaica Gymnaspis sp. n.

Van Duzee, 2997; Jamaica Oncopeltus sp. n.

Van Duzee, 2994; Bermudas short list, means of distribution.

Odonata,

Calvert, 436; Cuba and Porto Rico Lestes sp. n.

Orthoptera,

Griffini, 1180; Jamaica and St. Vincent Gryllacris 2 spp. n.

Rehn, 2338; Paroxya sp. n.

South America, including Trinidad.

Coleoptera.

Arrow, 58; 2 spp. n., Lithophorus and Bothrideres.

Arrow, 59; spp. n., Coelodes, Chaetodus, Hybochaetodus, Cryptogenius and Aclopus.

Aurivillius, 68; Peru and Bolivia Cerambycidae 18 spp. n.

Bernhauer, 211; Staphylinidae 29 spp. n.

Bourgeois, 312; Minas Geraes Chauliognathus sp. n.

Brèthes, 346; Argentina Platypus 2 spp. n.

Bruch, 378; Argentina Buprestidae 4 spp. n.

Bruch, 379; Argentina Cerambycidae 11 spp. n.

Bruch, 380; Melolonthini 9 spp. n., Philochloenia and Demodema.

Champion, 490; Rhinanisus sp. n.

Osiki, 624; Paraguay Anoplocerus sp. n.

Fassi, 858; Käferleben in West-Columbien.

Felsche, 869; Coprini 13 spp. n., Dendropemon, Phanaeus, Athyreus and Bradycinetus.

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Gounelle, 1145; Goyaz Liste des Cérambycides, 106 spp. n., genn. n.

Gounelle, 1146; Brésilienne Amphionycha sp. n.

Hagedorn, 1229; Scolytidae 6 spp. n.

Horn, 1362; Argentina Megacephala sp. n.

Horn, 1368; Urugauy Megacephala sp. n.

Kerremans, 1502; Brazil and Guiana Halecia 3 spp. n.

Kuhnt, 1647; Brachysphoenus and Dichomorpha, 5 spp. n.

Lameere, 1680; Pyrodes 4 spp. n.

Lewis, 1726; Argentina 4 spp. n., Saprinus and Euspilotus.

Magalhães, 1787; Brazil Dorcatoma sp. n.

Ohaus, 2085; Argentinien, Lamellicornia 10 spp. n., genn. n.

Ohaus, 2086; Chile Brachysternides 3 spp. n., gen. n.

Olivier, 2087; 6 spp. n., Lucidota, Photinus and Photuris.

Olivier, 2089; Lampyridae 13 spp. n.

Olivier, 2091; Lucidota 4 spp. n.

Olivier, 2092; Cayenne Calytocephalus sp. n.

Olivier, 2094; Cordoba Dodacles sp. n.

Olivier, 2095; Tucuman Photinus sp. n.

Pape, 2127; Colombia Mesoptilius sp. n.

Pic, 2179; Silis 2 spp. n.

Pic, 2183; Bolivie Hylophilus 7 spp. n.

Pic, 2186; Bolivia 4 spp. n., Anthicus and Tomoderus.

Pic, 2209; 2 spp. n., Dromanthus and Hadrobregmus.

Raffray, 2306; Pselaphidae 18 spp. n.

Raffray, 2307; Argentina Pselaphidae 29 spp. n., genn. n.

Schmidt, 2559; 2 spp. n. Aphodius and Ataenius.

Schmidt, 2560; Aphodiidae 9 spp. n.

Spaeth, 2773; 5 spp. n., Chelymorpha and gen. n.

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Spaeth, 2774; 22 spp. n.

Wasmann, 3115; Brazil n. gen. Paederini.

Hymenoptera.

André, 37; Mutillidae 4 spp. n., Mutillidae of Argentina catalogue.

André, 44; Mendoza gen. incertae sedis, cf. Konowiella in Fossoria.

Bréthes, 345; Buenos Aires Sphex 3 spp. n.

Brèthes, 347; Pepsis 79 spp. n.

Brèthes, 349; Mendoza and San Luis 4 spp. n. Notocyphus and Pompilus.

Brèthes, 350; 25 spp. n., Ichneumonidae, Braconidae, Chalcididae, Odynerus, Fossoria, Epeolus.

Brèthes, 352; Heresiarchoides sp. n., Iphiaulax 2 spp. n., Sphex sp. n.

Brèthes, 354; the Chilian Pepsis.

Buysson, 429 & 430; Mendoza, Chrysididae 3 spp. n.

Du Buysson, 431; 8 spp. n. Megacanthopus, Polybia and Synagris.

Cameron, 455; Parasitic, Argentina 35 spp. n.

Cockerell, 535; Patagonia Colletes sp. n.

Ducke, 760; Amazons Vespidae 2 spp. n.

Ducke, 761; Trop. S. America, Apidae 7 spp. n., Monobia sp. n., Fossoria spp. n., Nitela, Anacrabro and Irenangelus, Ellampus sp. n.

Ducke, 762; Ceara notes, Apidae 17 spp. n.

Enderlein, 816; Evania and Semaeomya, 3 spp. n.

Forel, 936; Formicidae 8 spp. n.

Holmberg, 1348; Argentina Coelioxys 5 spp. n.

Les abeilles sauvages du Chaco austral et leurs produits.

Jörgensen, 1447; Beobachtungen über Blumenbesuch, Biologie, Verbreitung usw. der Bienen von Mendoza, 11 spp. n.

Kieffer, 1515; Proctotrupidae 17 spp. n., genn. n.

Kieffer, 1520; Cynipidae many spp. n., genn. n.

Kieffer, 1522; Scelionidae 3 spp. n.

Krieger, 1625; Brazil Echthromorpha sp. n.

Mocsáry, 1926; Tenthredinidae 21 spp. n.

Schrottky, 2610; Apidae 25 spp. n., Trachypus 4 spp. n., Ichneumonidae Braconidae and Chalcididae 4 spp. n.

Schrottky, 2615; Paraguay and Argentina Aculeata 21 spp. n.

Schrottky, 2618; Paraguay, Exomalopsis 2 spp. n.

Strand, 2826; Paraguay 4 spp. n. Apidae and Mutilla sp. n.

Turner, 2964; Argentina and Chile Thynnidae 3 spp. n.

Turner, 2967; Minas Geraes 4 spp. n., Spilothynnus, Scotaena and Anthobosca.

Vachal, 2989; Apidae many spp. n.

Lepidoptera.

Bastelberger, 157; 10 spp. n., Nephodia, Nipteria and Hyalopola.

Bastelberger, 158; 3 spp. Pityeja and Xanthyris.

Bastelberger, 161; Brazil and Colombia Geometridae 2 spp. n., Dialephthis and gen. n.

Bastelberger, 163; Colombia Geometridae 7 spp. n.

Bastelberger, 165; Colombia and Peru 5 spp. n., Hydriomena, Hyalopoda, Rhodomena and Hammaptera.

Brabant, 325; Guyane française Palindia sp. n.

Dognin, 727; Cropia sp. n., Notodontidae 27 spp. n., Geometridae 9 spp. Pyralidae 7 spp. n. and gen. n., Gauris sp. n.

Dognin, 728; Syntomidae 11 spp. n., Lithosianae 4 spp. n., Arctiinae 8 spp. n., Josiomorpha sp. n., Geometridae 21 spp. n., Palcinodes sp. n., Acraga sp. n.

Druce, 743; Peru Yanguna sp. n.

Druce, 746; Peru and Argentina, Thecla 7 spp. n.

Druce, 747; Colombia and Peru 4 spp. n., Langueys, Miselia, Gonodes and Emarginea.

Druce, 749; 30 spp. n., Bombiliodes, Napata, Correbia, Idalus, Automolis, Opharus, Macronoctua, Calymniodes, Geroda, Mictochroa, Chalenata, Tarache Tarachidia, Erastrioides, Parangitia, Angitia, Paracodia, Ormiscodes, Poresta, Lepasta, Dicentria, and Meragisa.

Dyar, 771; Venezuela Tmetoglene sp. n.

Ehrmann, 799; 3 spp. n. Eudamus, Achlyodes and Sphingicampa.

Fassl, 857; Colombia Anaea sp. n. Fruhstorfer, 1015; Esp. Santo Zaretes sp. n.

Fruhstorfer, 1037; Amazons Adelpha sp. n.

Hampson, 1244; 43 spp. n., Syntomidae, Arctiidae, Noctuidae, genn. n.

Hampson, 1247; Noctuidae Acronyctinae 15 spp. n.

Mayrick, 1934; Bolivia and Peru Microlepidoptera 53 spp. n., 7 genn. n.

Mos, 1987; Chanchamayo, trip.

Moulton, 1971; Brazil, Burchell's collection, Phyciodes 2 spp. n.

Niepelt, 2053; Ecuador Papilio sp. n.

Rothschild, 2482; Arctiinae 71 spp. n.

Rothschild, 2485; Arctiidae about 100 spp. n.

Rothschild, 2486; Peru Melittia sp.

Rothschild, 2487; Arctiidae 99 spp. n.

Schrottky, 2612; der Syntomidae Paraguays, Phoenicoprocta sp. n.

Schrottky, 2614; Paraguay Eumenogaster sp. n.

Stichel, 2811; Revision der Riodinidae spp. n.

dinidae spp. n.

Warren, 3104; Epipleminae gen. n.,

Geometridae about 90 spp. n.

Weeks, 3134; Hesperiidae 3 spp. n.

Weymer, 3165; Ecuador Dismorphia sp. n., Bogota Automeris sp. n.

Weymer, 3166; Satyridae 2 spp. n.; gen. n.

Trichoptera.

Ulmer, 2977; Colombia Triaenodes sp. n.

Ulmer, 2980; Argentinische 4 spp. n.

Ulmer und Thienemann, 2985; 2 spp. n., Rhyacophylax and Chimarrha.

Neuroptera.

Banks, 134; Myrmeleonidae, genn. and spp. n.

Navás, 2011; 4 spp.n. Mantispa and gen. n. aff.

Weele, 3137; 3 spp. n., Argentina Corydalus, Brazil and Colombia Chloronia.

Diptera.

Austen, 78; 2 spp. n., Rhaphiorhynchus and Mydas.

Bezzi, 228; Townsendia sp. n.

Bezzi, 231; aus Paraguay Haplomera sp. n.

Brèthes, 348; Buenos, fam. nov.

Brèthes, 852; Mendoza Chironomidae gen. n. and Tanytarsus sp. n., Tipula sp. n., Bombyliidae 3 spp. n., Empidae gen. n., Muscidae 6 spp. n. and gen. n.

Dyar and Knab, 782; Trinidad Culicidae spp. n.

Enderlein, 822; Brazil Olbiogaster sp. n.

Enderlein, 824; Tierra del Fuego Borboridae gen. n.

Hendel, 1287; Euxesta 12 spp. n.

Hendel, 1288; Pterocallini 62 spp. n.

Hendel, 1292; Peru Traginops sp. n.

Hendel, 1294; Ulidiinae 14 spp. n.

Kertész, 1506; Peru Mycetophilidae 4 spp. n. Platyura, Tetragoneura and Neoempheria.

Kertész, 1508; Peru Stratiomyidae genn. et spp. n.

Kieffer, 1514; Pérou, Stenoxenus sp. n.

Lutz, 1773; Tabaniden Brasiliens und einiger Nachbarstaaten, 18 spp. n., genn. n.

Roubaud, 2496; Pérou Simulium sp. n.

Schrottky, 2617; Paraguay Simulium 3 spp. n.

Tavares, 2900; Brazil Cecidomyii-dae genn. et spp. n.

Wise, 3199; Brit. Guiana pernicious flies, short list.

Aphaniptera.

Rothschild, 2471; Chile and Argentina Stephanocircus 2 spp. n.

Rothschild, 2477; Chile Parapsyllus sp. n. and gen. n., Buenos Aires Ceratophyllus sp. n.

Rothschild, 2480; Chile Stephanocircus sp. n.

Hemiptera.

Bergroth, 199; Brazil Reduviidae gen. n.

Breddin, 834; Arvelius 5 spp. n.

Breddin, 335; Ochlerus 12 spp. n.

(Breddin, 338; Neue Rhynchoten Brachystethus, Edessa, Sibaria.)

Distant, 697; Cercopidae 32 spp. n.

Enderlein, 819; Brazil Aleurodicus sp. n.

Enderlein, 825; Aleurodidae gen. n.

Horváth, 1874; Sirthenea 3 spp. n.

Lindinger, 1732; Chile Coccidae gen.

Montandon, 1935; Peru and Bolivia Ambrysus 4 spp. n.

Reuter, 2389; Argentina Capsidae 2 spp. n., genn. n.

Reuter, 2391; S. America incl. Chile, Capsidae 4 spp. n., genn. n.

Reuter, 2392; Brasilia Capsidae 3 spp.n., Lampethusa, Horcias and gen.n.

Reuter, 2393; Venezuela Anthocoridae 2 spp. n., genn. n.

Reuter, 2398; Chile Capsidae 5 spp.

Reuter and Poppius, 2400; Nabidae 3 spp. n.

Schmidt, 2561; Colombia Hyboscarta sp. n.

Schmidt, 2566; Diestostemma 9 spp. n..

Schmidt, 2567; Ecuador, Phrictus sp. n.

Schmidt, 2568; Issides 15 spp. n.

Embiidae.

Enderlein, 829; 5 spp. n.

Psocidae.

Enderlein, 817; Ecuador 2 spp. n. "

Thysanoptera.

Bagnall, 103; 2 spp. n., gen. n.

Plecoptera.

Enderlein, 813; Neoperla 6 spp. n. Enderlein, 826; 5 spp. n., genn. n.

Ephemeridae.

Petersen, 2159; Mendoza Cloëon sp. n.

Odonata.

Calvert, 436; Neotropical region 64 spp. n.

Förster, 922; 4 spp. n. gen. n.

Martin, 1835; Aeschninae 11 spp. n. Subaeschna gen n., Gynacantha, Neuraeschna and Staurophlebia.

Orthoptera.

Burr, 408; Peru Pyragra sp. n.

Hanesck, 1248; Tetriginae 4 spp. n.

Rehn, 2340; Brazil, Acridiidae spp. n., genn. n.

Shelford, 2682; Blattidae 9 spp. n.

III.—SYSTEMATIC.

Neue Homologien zwischen Crustaceen und Hexapoden. Die Beissmandibel der Insekten und ihre phylogenetische Bedeutung. Archi- und Metapterygota; BÖRNER Zool. Anz. 34 pp. 100-125.

The Orders of Insecta; SHARP Entomologist 42 pp. 270-272 and LUGAS t.c. p. 293.

†A catalogue of the generic names based on American insects and arachnids from the Tertiary rocks, with indications of the type species; Cookerell Bull. Amer. Mus. 26 pp. 77-86.

General work on Indian entomology; MAXWELL-LEFROY & HOWLETT, Indian Insect life xii + 786 pp. 84 pls.

COLEOPTERA.

Coleopterorum Catalogus auspiciis et auxilio W. Junk editus a S. Schenkling. Pars 2: F. Borchmann, Nilionidae Othniidae, Petriidae, Lagriidae. Pars 3: Alleculidae. Pars 5: R. Gestro, Cupedidae, Paussidae Berlin (W. Junk) 1910 [1909] (32; 80; 31). 26 cm. 3 M. 7,50 M. 3 M.

Aggiunte al Catalogo di Heyden, Reitter e Weise, Fronz Riv. Coleotter. ital. 7 pp. 22-25.

Tableaux analytiques pour déterminer les Coléoptères de France, Gozis Rev. sci. Bourbon 21 pp. 31-49.

Fauna Germanica; Die Käfer des Deutschen Reiches, Band 2, REITTER pp. 392 40 Taf.

Calwer, Käferbuch, Schaufuss Lfg. 10-15 pp. 65-88 289-496 mit 12 Taf.

Illustrierte Gattungs-Tabellen der Käfer Deutschlands [aus Calwer], Kuhnt Ent. Rdsch. 26 pp. 6 etc.

Kleine Beobachtungen an schlesischen Käfern. [Zahlenverhältnis der Geschlechter etc.], Gerhardt D. ent. Zs. p. 423.

Biologische und zoogeographische Coleopteren - Miszellen (Böhmisch), ROUBAL Čas. České Spol. Entomolog. 1908 pp. 83–87.

List of Colcoptera found in the Peninsula of Sinai. Annexe bibliographique et description des espèces nouvelles, Bedel Abeille 31 pp. 49-55.

Coléoptères (Biospeologica), JEAN-NEL Arch Zool. 1 pp. 447-532 fig.

Käterlarven und Käterpuppen aus Deutsch-Ostafrika, Eightelbaum Zs. wiss. Insektenbiol. 5 pp. 173 etc.

Contribution à l'étude du sang des Coléoptères, Hollande Arch. zool. 2 pp. 271-294 fig.

Corrections et notes complémentaires diverses, Pic Miscell. ent. 17 pp. 25-26.

Réponse à M. Pic, BARTHE Misc. Ent. 17 p. 26.

N'encombrons pas la nomenclature, Pro Echange 25 pp. 175-176 183-184.

Réflexions et notes diverses inspirées par quelques récents articles entomologiques, Pic T.c. p. 151.

CICINDELIDAE.

Genera of Cicindelidae, commencement, Horn Gen. ins. 82A, 104 pp. 5 pls.

Verbreitung und Stationen in Transbaikalien, Semenov Rev. russ. ent. 8 pp. 305-311.

Annotated list of Indian Cicindelidae, Annandale & Horn 31 pp. and 1 pl.

Life-histories and larval habits, SHELFORD J. Linn. Soc. 30 pp. 157– 184 & pls. xxiii-xxvi.

Amblychila baroni longipes subsp. n., CASEY p. 253 Canad. Ent. 41.

Cicindela reticostata sp. n. Angola, WELLMAN & HORN Proc. Acad. Philad. 60 p. 509.—C. kerandeli sp. n. Congo, Maindron Bul. muséum Paris 1909 p. 108.—C. hewiti, spinicollis, spp. n., Borneo, p. 443, venus stuprata p. 446 and cribrata setopronotalis p. 447 subspp. n., Horn Ann. Soc. ent. Belgique 53.—C. scitula p. 298, darwini, Port Darwin, queenslandica Cairns, pp. 299-300 spp. n., SLOANE Proc. Linn. Soc. N.S.W. 34.—C. snowi p. 269, levettei p. 270, boulderensis p. 271, diffracta p. 273. cochisensis, United States, filitarsis, p. 274, tumidifrons, aterrima, p. 275, Mexico, spp. n., longilabris nebraskana p. 268, nigrocoerulea feminalis p. 269, snowi triplicans and s. velutoidea p. 270, levettei tridens p. 271, depressula scapularis, senilis exoleta, p. 272, subspp. n., purpurea denverensis a distinct species p. 271, CASEY Canad. Ent. 41.—C. circumdata ab. n. marthae, BARTHE Misc. ent. 16 1908 p. 17 .-- C. circumdata marthae var. n., mœurs, Puel Paris Bul. soc. ent. 1909 pp. 24-27.—C. germanica varr., PASQUET Rennes Bul. soc. sci. med. 18 pp. 61-76 av. fig.—C. maritima f. n. intermedia Deutschl, LENGERKEN Ent. Bl. 5 p. 187.—C. silvatica var. n. obotritica, silvicola var. n. tatrica, paludosa varr. n. barcelonensis and toledana, litoralis varr. n. dalmatina, tripolitana, istriensis and oranensis, Schulz Intern. ent. Zs. 2 pp. 316-317.

-Nervensystem der Larve, Groot Tijdschr. Ent. 52 pp. 294-296.

Collyris compressicollis sp. n. Assam, Horn p. 445 Ann. Soc. ent. Belgique 53.—Collyris spp. and Tricondyla cyanea, Bohrgänge der Larven (Holländisch), Dooters van Leeuwen Salatiga Cultuurgids 11 pp. 137-153 1 Taf. Distypsidera volitans Macleay var. n. obscura, Sloane Proc. Linn. Soc. N.S.W. 34 p. 297.

Dromica incrassata S.-Afrika, fundoplanata O.-Afrika p. 90, setosula Central Afrika p. 92, spp. n., bennigseni subspp. n. angustata and crassereducta, Horn D. ent. Zs. 1909.—D. gracilis, densepunctata, spp. n., eriksoni subsp. n. mesothoracica, Katanga; Horn Ent. Rdsch. 26 p. 101.

Iresia beschei subsp. n. aureoruja Espirito Santo, Horn Leiden Notes Mus. 31 p. 187.

Megacephala bucephala sp. n., sobrina ab. n. phylogenetica Argentinia, Horn D. ent. Zs. 1909 pp. 284-286.—M. (Phaeoxantha) tremolerasi sp. n. Uruguay, Horn p. 32 Rev. Mus. La Plata 16.

Nickerlea sloanei and distipsideroides distinguished, HORN p. 444 Ann. Soc. ent. Belgique 53.

Omus mimus, borealis, p. 256, dunni p. 258 with subspp. n. regularis and maritimus, procerus p. 259 with subsp. n. parvicollis, blaisdelli p. 260, cribripennis p. 261, fraterculus p. 263, collaris, compositus, tularensis, p. 265, spp. n., United States, edwardsi lobatus p. 261, montanus lucidicollis, montanus brunnescens, p. 262, punctifrons degener p. 263, tularensis gracilior p. 266, subspp. n., CASEY Canad. Ent. 41.

Pogonostoma parallelum, basidilatatum, spp. n., septentrionale subsp. n. auripennis, Madagaskar, Horn Soc. entomol. 24 pp. 89-90.

Prothyma heteromallicollis p. 312, hopkinsi p. 313, Philippines, spp. n., HORN D. ent. Zs. 1909.

Therates clavicornis subsp. n. *alboobliquata Formosa, Horn Leiden Notes Mus. 31 p. 186.

Vata gracili palpis sp. n. New Caledonia, Horn p. 188 T.c.

CARABIDAE.

Petites notes entomologiques, PLANET Naturaliste 30 pp. 269-270 fig.

Acardystus subg. n. von Harpalus (cupreus etc.), Reitter Fauna Germ. I 1908 p. 172.

Acupalpus mayeri sp. n. Vardarebene, Schatzmayr p. 40 Ent. Ztg. Wien 28.

Adelotopus jacobsoni sp. n. Java, Ritsema Leiden Notes Mus. 31 p. 255.

Aepys robini, bearing Laboutbenia marina, Picard Paris C. R. soc. biol. 65 pp. 484-486.

Agonodromius subg. n. von Agonum (A. 4-punctatus etc.), Reitter Fauna Germ. I 1908 p. 139.

Agonum impressum ab. n. subsmaragdinum, Reitter T.c. p. 140.

Amara (Celia) krekichi p. 40, haydeni p. 41, spp. n., Macedonia, Schatzmayr Ent. Ztg. Wien 28.—A. frivaldskyi n. n. pro proxima Friv. p. 358, Jacobson Käfer Russlands Lief. 5 1907.

Anchomenus chathamensis sp. n. Chatham Islands; Broun Wellington Trans N. Zeal. Inst. 41 p. 147.

Anophthalmus; classification of, PEYERIMHOFF Paris Bul. soc. ent. 1909 pp. 258-261.

Antagonaspis gen. n. near Tropidopterus, sculptopunctata sp. n. Insel Neu Amsterdam, Enderlein D. Südpolar-Exped. 10 H 4 pp. 488-489.

Anthracus leonhardi sp. n. Vardarebene, Schatzmayr p. 40 Ent. Ztg. Wien 28.

Aphaenops proserpina sp. n. Pyrenees, Jeannel Paris Bul. soc. ent. 1909 p. 17 fig. 1 p. 18.

Aristus infans sp. n. Syria, ABEILLE p. 315 C. R. soc. biol. 67.

Badister pici sp. n. Vardarebenc, SCHATZMAYR p. 39 Ent. Ztg. Wien 28.

Baudiicarabus subg. n. vide Carabus.

Bembidium lamprinulum Kaukasus p. 107, haupti Araxestal p. 110, spp. n., punctulatum ab. n. lutzi Deutschland p. 114, var. n. bracteonoides p. 114, decorum var. n. munganasti, stephensi var. n. marthae, nitidulum varr. n. pseudonitidulum and lirykense p. 116, aeneum ab. n. pseudaeneum, lunulatum ab. n. submarinum, p. 122, REITTER Fauna Germ. I 1908.—Bembidium; Mikro-(Grund-)Skulptur, NETOLITZKY Ent. Ztg. Wien 23 pp. 1-10.—B. leonhardi sp. n. Bosnien-Herzegowina, NETOLITZKY p. 43 T.c.—B. (Peryphus) eskilos, rebellum, spp. n., Maccdonia, SCHATZMAYR p. 104 T.c.—B. kuchtae

sp. n. Süd-Dobrudscha, Breit Wien Verh. Zool Bot. Ges. 59 p. 295.

Blethisa columbica sp. n. N. America, CASEY p. 277 Canad. Ent. 41.

Brachinus chaudoirianus n. n. pro atripennis Chaud. p. 410, efflans subsp. apfelbecki n. n. pro orientalis Apf. p. 411, JACOBSON Käfer Russlands Lief. 6 1908. —B. bisignifer, PORTA Ann. Museo zool. Napoli 3 No. 2 p. 1.

Callistominus alluaudi sp. n. Assinie, MAINDRON p. 274 Bull. Soc. ent. France 1909.

Calosoma maximowiczi subsp. n. sauteri Formosa, Born Soc. entomol. 24 p. 99.—C. splendidum Florida. S. Domingo, Schaeffer J. Ent. Soc. New York 17 p. 149.—†C. calvini sp. n. Colorado Tertiary, Wickham Amer. J. Sci. 28 p. 126.

Carabina; from Gouv. Stavropol, Luonik Rev. russ. ent. 8 p. 351.

Carabus; Tableaux (suite), LAPOUGE Echange 24 pp. 18 etc.; Zur Morphologie und Chromologie der Caraben, Sokolář Ent. Rdsch. 26 pp. 16-17 22-23; Zur verwandtschaftlichen Gruppierung der Caraben, RABE Ent. Bl. 5 pp. 169-171; — Carabus, Coulon Elbeuf Bul. soc. 27 pp. 79-100. —(Chrysocarabus), BARTHE Misc. ent. 17 p. 41.—C. auronitens v. festivus; purpureorutilans violaceopurpureus, BARTHE Misc. ent. 16 1908 p. 3.—C. auronitens, Lebensweise, Racen, Verbreitung, Pehr Carinthia 2 98 1908 pp. 13-21.—C. glabratus subsp. n. lapponicus Lappland, monilis subsp. n. unanensis Bosnien, violaceus subsp. n. vlascanus Walachei, Born Soc. entomol. 24 p. 129.—C. cancellatus brevituberculatus var. n. Boehmen, ROUBAL Čas. České Spol. Entomolog. 1909.—C. corrugis Synonymie and Verbreitung, Semenov p. 25 Rev. russ. ent. 9.—C. (Baudiicarabus subg. n.) cychroides, Beschreibung, GANGLBAUER p. 59 Ent. Ztg. Wien 28.—C. exaratus subsp. n. prahwei Terek-Gebiet, prometheus var. n. brianskii Kuban-Gebiet, Luŏ-NIK Rev. russ. ent. 9 pp. 166-167.—C. helveticus Heer, Born Soc. entomol. 24 pp. 1-2.—C. irregularis, SOKOLAR Ent. Rdsch. 26 pp. 87-89.—C. morbillosus var. n. lepitrei Marocco, Krausse Intern. ent. Zs. 3 p. 171.-C. morbillosus arborensis und C.

genei kraussei, Krausse Ent. Bl. 5 pp. 213-214.—C. (Cryptocarabus) munganasti sp. n. China, Reitter p. 70 Ent. Ztg. Wien. 28.—C. purpurascens var. n. viridilucens, Barthe p. 1 Misc. ent. 17.—C. scabriusculus, Biologie, Blühweiss Wien Verh. ZoolBot. Ges. 59 p. 28.—C. splendens jeani nov. ab., Clermont Echange 25 p. 123.—C. ullrichi, Born Ent. Rdsch. 26 p. 45.

Chlaeniellus subg. n. von Chlaenius (vestitus etc.), REITTER Fauna Germ. I 1908 pp. 185 & 187.

Chlaeniomimus virescens Motsch. (as Atranus) = (hybridus Rttr.), Semenov Rev. russ. ent. 9 p. 26.

Chlaenius reitteri n. n. pro violuceipennis Reitt., Jacobson Käfer Russlands Lief. 4 1906 p. 315.

Clivina ypsilon obliterata subsp. n. Centr. Asia, Sumarov p. 247 Rev. russe Ent. 8.—C. impressifrons, natural history, Phillips Bull. U. S. Dep. Agric. Ent. 85 pp. 13–28 figs. 5–13.

Clivinaxis gen. n. Scaritinae, conicicollis sp. n. Ural, REITTER p. 53 Ent. Ztg. Wien 28.

Clivinopsis Bed. = (Clivinaxis Rttr.), conicicollis Verbreitung p. 25, Semenov Rev. russ. ent. 9.

Colliuris kashmirica n. n. pro bimaculata Redtb. praeocc. p. 407, JACOBSON Käfer Russlands Lief. 6 1908.

Colpodes alberti, suberbiei, p. 54, suavis, dialithus, sublaevis, caraboides, p. 55, vagus, ranavalonae, p. 56, mathiauxi, tanata, p. 57, benschi, emiliibessoni, p. 58, rudis, murex, p. 59, montis, sicardi, cyanurus, p. 60, dolius, euleptus, p. 61, gallienii, lyanteyi, p. 62, spp. n., M adagascar, Alluaud Paris Ann. Soc. ent. 78.

Cymindis axillaris occidentalis n. n. pro marginata Luc., JACOBSON Käfer Russlands Lief. 6 1908 p. 404.

Diachromus germanus ab. n. joukli, REITTER Fauna Germ. I 1908 p. 170.

Diglymma castigatum sp. n. The Snares, Broun Subantarct. Isl. New Zealand 1 p. 84.

Eremosphodrus gen. n. Agonini p. 295, caspicus sp. n. Transcaspian p. 296, SEMENOV Rev. russe Ent. 8.

Eucarabus ullrichi, Verbreitung und Rassen, Pehr Carinthia 99 p. 167.

Harpalus reichei n. n. pro ovalis Reiche p. 382, tichonis n. n. pro ussuriensis Tschitsch. p. 382, Jacobson Käfer Russlands Lief. 5 1907.—H. (Amblystus) pseudoodes sp. n. Mandschurei, FLEI-SCHER p. 240 Ent. Ztg. Wien 28 .-- H. pygmaeus ab. n. pygmaeolus, Reitter Fauna Germ. I 1908 p. 173.—Cf. Acardystus.

Kenodactylus gen. n. near Anisodactylus p. 90, capito sp. n. Campbell Isld. p. 91, Brown Subantarct. islds.

Laemostenus tschitscherini sp. n. Caucasus, Semenov p. 313 Rev. russe Ent. 8.—L. (Neometicharia subg. n.) holtzi sp. n. Makedonien, Schatzmayr p. 42 Ent. Ztg. Wien 28.

Lebia scapularis ab. n. insolita Syrien, REITTER Fauna Germ. I 1908 p. 191.

Leistus (Acroleistus) osseticus sp. n. Kaukasus, Reitter p. 53 Ent. Ztg. Wien 28.—L. reitteri n. n. pro ellipticus Reitt., JACOBSON Käfer Russlands Lief. 4 1906 p. 259.

fleischeri Lionychus nom. für unicolor Fleischer nec. var. unicolor Heyd., REITTER Fauna Germ. I 1908 p. 192.

Lorocerinae, Rousseau Gen. ins. 86 3 pp. & 1 pl.

Loxomerus ambiguus p. 92, fossulatus p. 93, Auckland islds., spp. n., Broun Subantarct. Isl. New. Zealand 1.

Mecodema hudsoni sp. n. The Snares, Broun T.c. p. 83.

Molops boderoi sp. n. Athos, SCHATZ-MAYR p. 41 Ent. Ztg. Wien 28.

Neomelicharia subgen. n. vide Laemostenus.

Notiophilus strigifrons, pusillus and aquaticus, Champion p. 12 Ent. Mag. 45.—N. pusillus and hypocrita, Joy t.c. p. 13.

Omophron limbatum ab. n. sokolari Wienerwald, ROUBAL Wien Verh. Zool. Bot. Ges. 59 p. (373).—O. grossum p. 275, ellipticum, brevipenne, p. 276, spp. n., United States; Casey Canad. Ent. 41.

Omcphroninae, Rousseau Gen. ins. 83, 5 pp. & 1 pl.

Oodes thessalonicensis sp. n. Macedonia, SCHATZMAYR p. 39 Ent. Ztg.

Wien 28.—O. hahni sp. n. Taschkend, REITTER Fauna Germ. I 1908 p. 186.-O. desertus Beschreibung, hafni Rttr. subsp. von desertus, SEMENOV Rev. russ. ent. 9 p. 25.

Oopterus tripunctatus Auckland Isl. p. 87, marrineri p. 88, tarsalis, elongellus, p. 89, Campbell Isl., spp. n., Broun Subantarct. Islds. N.Z. 1.

Ophonus sagowskii sp. n. S.-O.-Russland, LUTSCHNIK Berliner ent. Zs. 54 p. 108.

Oreoplatysma nom. n. pro subgen. Agonodemus Reitt. praeocc., JACOBSON Käfer Russlands Lief 5 1907.

Pamborinae, Rousseau Gen. ins. 85 3 pp. & 1 pl.

Parasteropus subg. n. von Pterostichus (illigeri Panz.), REITTER Fauna Germ. I 1908 p. 153.

Patrobus austriacus sp. n. Nieder-Osterreich., Reitter p. 133 T.c.

Penetretus (Deltomerus) sterbai sp. n. Zentral-Mazedonien, RAMBOUSER Cas. Ceské Spol. Entomolog. 1909 p. 114.

Percus; Table of species, variation, distribution, GANGLBAUER D. ent. Zs. 1909 pp. 97-105.

Platynus (Europhilus) pirata sp. n. Athos, SCHATZMAYR p. 104 Ent. Ztg. Wien 28.—P. assimilis ab. n. sanguinipes, REITTER Fauna Germ. I 1908 р. 143.

Platypterinus subg. n. von Pterostichus (P. ziegleri), REITTER pp. 149 & 155 T.c.

Platysma (Derus) innatum p. 266, with varr. transiliense and ferganense p. 267, aralense p. 268, spp. n., Turkestan, advena transcaspicum var. n. p. 266, GLAZUNOV Rev. russe Ent. 8.—P. poppiusianum n. n. pro insulicola Popp. p. 345, baeckmanni n. n. pro ochoticum Motsch. pracocc. p. 347, cristatum subsp. heydenianum pro cantabricum Schauf. p. 349, tschitscherinianum n. n. pro jessoense Tschitsch. praeocc. p. 351, Jacobson Käfer Russlands Lief. 5 1907.

Polystichus connexus and ciolatus, identicita, GRANDI Riv. Coleotter. ital. 7 No. 1 p. 2-8 & No. 2-3 p. 25.

Pristomachaerus yunnanus Yunnan p. 275, nair p. 276 Malabar, spp. n., MAINDRON Bull. Soc. ent. France 1909.

Promecognathinae, Rousseau Gen. ins. 84 4. pp. & 1 pl.

Pseudomorpha castanea sp. n. Utah, Casey p. 278 Canad. Ent. 41.

Pterostichus (Steropus) sudeticus sp. n. Deutschl., Gerhardt Breslau Jahresh. Ver. Insektenk. 2 p. 14 and D. ent. Zs. 1909 p. 501.—P. (Eurymelanius) chydaeus var. n. ronchettii Kaukasus, Reitter p. 54 Ent. Ztg. Wien 28.—P. dimidiatus abb. n. niger and subviolaceus p. 273, P. (Steropus) galaecianus sp. n. Spain p. 274, Lauffer Bol. Soc. espan. 9.—P. kokeili ab. n. pulchripes, Reitter Fauna Germ. I 1908 p. 154.

Scaritini; Tableau de détermination des Coléoptères d'Europe, comprenant la tribu des (trad. par A. Carret), FLEISCHER et REITTER Misc. ent. 15 (pag. spéc. 34).

Scarites (s. str.) kharonii sp. n. Jerusalem, Reitter p. 99 Ent. Ztg. Wien 28.

Stenochlaenius subg. n. von Chlaenius (coeruleus etc.), REITTER Fauna Germ. I 1908 p. 185.

Stenolepta transcaspia 'I'ranscaspia sp. n., Semenov Rev. russ. ent. 8 p. 297.

Synteratus gen. n. near Oopterus, ovalis sp. n. pl. v fig. 1 The Snares; Broun Subantarct. Isl. New Zealand 1 p. 58.

Tachys sexstriatus ab. n. guttifer, REITTER p. 125 Fauna Germ. I 1908.

Taphoxenus humeralis Transcaspia sp. n., Semenov Rev. russ. ent. 8 p. 296.

Trechus bescidicus sp. n. Böhmerwald, Reitter Fauna Germ. I 1908 p. 130.—
T. subnotatus subsp. n. athonis, Schatz-Mayr p. 104 Ent. Ztg. Wien 28.—T. (Anophthalmus) schmidti subsp. n. istriensis, hirtus subsp. n. mayeri Nabresina, p. 273, treulandi sp. n. Südsteiermark p. 274; Müller Ent. Ztg. Wien 28.—T. rambouseki sp. n. Südsteiermark p. 274; Müller Ent. Ztg. Wien 28.—T. rambouseki sp. n. Südsteiermark p. 274; Müller Ent. ZoolBot. Ges. 59 p. 295.—T. (Duvalius) jurjurae sp. n. Djurdjura p. 242, incola Algeria p. 277, Peyerimhoff Bull. Soc. ent. France 1909.—T. mauritanicus sp. n. Jeannel Arch. zool. 1 p. 458.—T. apfelbeckianus nom. nov. pro bradycelloides Apf. praeocc. p. 297, T.

diniensis subsp. peyerimhoffi n. n. procautus Peyerim. praeocc. p. 301, JACOBSON Käfer Russlands Lief. 4 1906.—T. bordei sp. n. Astuté Grotte; PEYERIMHOFF p. 206 Bull. Soc. ent. France 1909.

Zabrus dejeani n. n. pro piger Dej. praeocc. p. 366, JACOBSON Käfer Russlands Lief. 5 1907.

PAUSSIDAE.

Ueber die Paussiden; MÜLLER Ent. Zs. 23 pp. 47-48 58-59 62-64 65-66.

Paussus turcicus, bei Pheidole pallidula Transkaspien; Karawajew Rev. russ. ent. St. Peterburg 9 1909 p. 228.

DYTISCIDAE.

Dytiscidae e Gyrinidae del Museo zool. di Roma; Masi Roma Boll. Soc. zool. ital. 10 pp. 494-506.

Sur le tarse des Dytiscides; Cha-TANAY Paris Diplôme d'Etudes supérieures de la Faculté des Sciences 1909 11 pp.

Recherche physiologique sur les Insects aquatiques II Digestion des larves de Dytique, d'Hydrobius et d'Hydrophile; PORTIER Paris C. R. Soc. biol. 67 pp. 379-382.

†Acilius florissantensis sp. n. Colorado Tertiary, Wickham Amer. J. Sci. 28 p. 127.

Agabus inguttatus sp. n. Kaukasus, REITTER Fauna Germ. I 1908 p. 223.— A. sharpi n. n. pro sibiricus Sharp praeocc. p. 430, Jacobson Käfer Russlands Lief. 6 1908.

Canthydrus levis sp. n. Lower California, FALL p. 161 Canad. Ent. 41.

Dytiscus marginalis, Stigmen, Alt Verh. D. zool. Ges. 19 pp. 95-97 and Zool. Anz. 34 pp. 793-799; Regenerationsversuche, Blunck Zool. Anz. 34 pp. 172-180; Färbungsvariation, Blunck T.c. pp. 337-345.

Hydroporus lutzi sp. n. Podolien, REITTER Fauna Germ. I 1908 p. 215.—
H. bosnicus sp. n. Bsonia, APFELBECK Sarajevo Glasn. ZemMuz. Bosn. Herceg. 21 pp. 495-504.—H. eugeniae sp. n. Gouv. Novgorod, Zaicev Rev. rus. ent. 9 pp. 63-64.—H. zaitzevi n. n. pro pectoralis J. Sahlb. praeocc., JACOBSON p. 425 Käfer Russlands Lief. 6 1908.—

H. hopfigarteni distinct, GERHARDT p. 423 D. ent. Zs. 1909.

Siettitia; ABEILLE de PERRIN Marseille Annu. soc. sci. nat. Provence 1 p. lxxvi.

GYRINIDAE.

Notizen über Gyriniden Mark Brandenburg; Ahlwarth Ent. Bl. 5 p. 214.

Dineutes subspinosus var. n. notatipennis, Pic p. 153 Echange 25.

Gyrinus urinator var. n. fulviventris Syrien, Reitter Fauna Germ. I 1908 p. 236.

HYDROPHILIDAE.

Lebensgeschichte, Hydrophilidae; MEGUŠAR Verh. z.-b. Ges. Wien 59 pp. (278)-(287).

Adolopus australis p. 223, tibialis p. 224, spp. n., New Zealand, Broun Ann. Nat. Hist. 3.

Anacaena; the British species, EDWARDS pp. 169-172 Ent. Mag. 45.

Berosus affinis, Variation, B. (Enoplurus) spinosus var. ?, MULLER Wien Verh. ZoolBot. Ges. 59 pp. 456-485.

Helophorus (Atractelophorus) ganglbaueri sp. n. Adamello, Kniž Wien Verh. ZoolBot. Ges. 59 p. (297).

Hydraena (Phothydraena) pallidula p. 39, (Hydraena s. s.) mouzaiensis p. 40, spp. n. N. Africa, Deville Paris Bul. soc. ent. 1909.—H. (Haenydra) bosnica, homogyna, H. pachyptera, spp. n., Bosnien, Apfelbeck Sarajevo Glasn. Zem.Muz. Bosn. Herceg. 21 pp. 495-504.

Hydrophilina; analytische Tabelle der Gattungen; Zaitzev Rev. russ. ent. 8 pp. 228-229.

Hydrophilus sartus, Budapest, Reitter p. 110 Ent. Ztg. Wien 28.

Hydrous-(Hydrophilus-) Biologie der Larve, Hauft Zs. Natw. Leipzig 81 p. 301-304.

Laccobius sulcatulus sp. n. Persia, REITTER Ent. Bl. 5 p.80.—L. scutellaris? of Motsch., Sharp p. 217 Ent. Mag. 45.

Limnohydrobius gen. n. für Hydrobius convexus, Rehtter Fauna Germ. 2 p. 357 & 360.

Namostygnus gen. n. p. 98 near Cyloma, rufipes sp. n. p. 99 Auckland Isl., Broun Subantarct. Isl. New. Zealand 1.

Neosternolophus subgen. n. von Sternolophus für artensis und nitidulus, Zaitzev Rev. russ. ent. 8 pp. 228-232.

Ochthebius guerryi sp. n. Vardarebene, Schatzmayr p. 43 Ent. Ztg. Wien 28.—
O. (Hymenodes) foveolatus subsp. 7, MÜLLER Wien Verh. Zool. Bot. Ges. 59 pp. 456-485.—O. (Calobius) zugmayeri sp. n. Nordwest-Persien, Kniž Wien Verh. Zool. Bot. Ges. 59 p. (297).

†Philydrus scudderi sp. n. Colorado Tertiary, Wickham Amer. J. Sci. 28 p. 127 1909.

Sternolophus; analytische Tabelle und Verbreitung der Arten pp. 228-231, decens sp. n. Persia p. 231, notaticollis = solieri, punctulatus = solieri, elongatus == frater = unicolor, pp. 231 & 232, comoriensis = Hydrophilus sp.? p. 232; Zaitzev Rev. russ. ent. 8.

STAPHYLINIDAE.

Catalogue of the genera of Staphy-linidae, 815 in number with 11,801 species, Literature, early stages, distribution etc., Eichelbaum Mem. Soc. ent. Belgique 17 pp. 71-280.

Acidota caucasica sp. n. Kaukasus, REITTER Fauna Germ. 2 p. 185.

Acrulia angusticollis sp. n. Kroatien, Reitter p. 194 T.c.

Acylophorus jalapanus sp. n. Mexico, Schubert D. ent. Zs. 1909 p. 289.

Agaricophaena subg. n. von Gyrophaena (boleti L.), Reitter' Fauna Germ. 2 p. 85.

Ancyrophorus aureus var. n. ruftcornis Görz, Reitter p. 175 T.c.

Antarctophytosus gen. n. für Phytosus atriceps Waterh., ENDERLEIN D. Südpolar Exped. 10 H. 4 p. 377.

Antarctotachinus gen. n. Tachyporinae, crozetensis sp. n. Crozet-Inschn, Enderlein p. 379-380 T.c.

Anthobium stussineri Italia, japonicum Japan, spp. n., BERNHAUER Soc. entomol. 24 p. 52.—A. zolotarevi sp. n. Kaukasus, Řeitter p. 55 Ent. Ztg. Wien 28. Anthophagus dinaricus sp. n. Bosnien, Apfelbeck Sarajevo Glasn. ZemMuz. Bosn. Herceg. 21 pp. 495-504.

Apteranillus villosus sp. n. Algeria, Peyerimhoff p. 279 Bull. Soc. ent. France 1909.

Apteraphaenops; position systématique et origine phylogénique, Pever-IMHOFF pp. 20-23 figs. T.c.

Astenognathus subg. n. von Astenus (= filiformis etc.). REITTER Fauna Germ. 2 p. 150.

Astenus graecus Griechenland velebiticus Kroatien p. 150, rufopacus Lenkoran, rutilipennis Ungarn, p. 151, spp. n., REITTER T.c.

Atanygnathus nom. n. pro Tanygnathus Er., Jacobson Käf. Russl. Lief. vii p. 521.

Atheta geysiri sp. n. Island, NEU-MANN D. ent. Zs. 1909 p. 777 .- A. (Metaxya) nigropicea Shigansk p. 35, praticola Ost-Sibirien, p. 37, A. (Oreostiba) lenense Lena p. 39, A. (Traumoecia) caviceps Shigansk p. 41, A. (Philhygra) tungusica p. 42, paludicola p. 43, Ost-Sibirien, A. (Dimetrota) granulifera Shigansk p. 45, spp. n., Poppius Helsingfors Ofvers. F. Vet. Soc. 51 A No. 4. -A. centropunctata California p. 515, angusticauda Alaska and Brit. Columbia, approximata, Massachusetts, p. 516 densissima p. 517 California, impressipennis Massachusetts, pseudoatomaria Maine, p. 518 opaciceps Massachusetts, militaris California, p. 519, frosti N .-Amerika, tubericauda, p. 520, Massachusetts, unigranosa Delaware p. 521, metlakatlana Brit. Columbia, sublucens California, obsoleticollis Colorado, p. 522, oregonensis Oregon, klimschi Opelousas, p. 523, klagesi p. 524 California, orientis Georgien, hampshirensis New Hampshire, p. 525, subpygmaea Massachusetts, bakeri Pennsylvania, p. 526, flavicornis p. 527 Pennsylvania, continentalis Iowa, Pennsylvania, bistriata Pennsylvania, p. 528, spp. n., Bernhauer D. ent. Zs. 1909.—A. (Halobrectha) algophila p. 419, A. hilaris p. 420, A. (Dimetrota) laetula p. 421, neomexicana p. 422, nigrita, A. (Metaxya) subpolaris p. 423, U.S., spp. n., FENYES Ent. News 20.—A. mutata n. n. pro myrmecobia Kr. p. 547, hispanica nom. n. pro laevigata Ch. p. 551, Jacobson Käf. Russ. Lief. vii. — Atheta ernestinae var. n. curtii Doutschl., HUBENTHAL Ent. Bl. 5 p. 1 etc.—A. languida und longicollis, Kolbe Breslau Jahresh. Ver. Insektenk. H. 2 pp. 25-28.

Baeostethus gen. n. Aleocharidae p. 96, chiltoni sp. n. p. 97 pl. v f. 7 Campbell Isl., Broun Subantarct. Isl. New Zealand 1.

Bledius miles sp. n. Argentinien, BERNHAUER Firenze Boll. Soc. Entom. 40 pp. 225-251.

Bolitobius pygmaeus subsp. n. transversulus Kaukasus, Reitter Fauna Germ. 2 p. 105.

Bryophacis subg. n. von Bryoporus (rufus Er.), Bryoporus strigellus sp. n. Madrid, Reitter p. 102 T.c.

Calischnopoda subg. n. von Ischnopoda (exarata Er.), REITTER Fauna Germ. 2 p. 73.

Cephisus ferrantei sp. n. Cairo, REITTER p. 39 Bull. Soc. ent. Eygpte 1.

Cryptobium patagonicum, opalescens, Argentinien, spp. n., Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225– 251.

Deliphrosoma gen. n. für Arpedium macrocephalum Epph., REITTER Fauna Germ. 2 p. 180.

Diestota testacea, Sharp p. 269 Ent. Mag. 45.

Dinarda; the forms, WASMANN Natur und Offenb. 55 pp. 321-346.

Dinusina gen. n., gestroi Chile, bimaculata Argentinien, spp. n., BERNHAUER Firenze Boll. Soc. Entom. 40 pp. 225-251.

Edaphus kaufmanni sp. n. Fiume, Reitter Ent. Ztg. Wien 28 p. 303.

Euaesthetus frigidus sp. n. Lena, Poppius Helsingfors Öfvers. F. Vet. Soc. 51 A No. 4 p. 21.

Eucnecosum subg. n. von Arpedium = brachypterum, REITTER Fauna Germ. 2 p. 186.

Euphonus reitteri n. n. pro grandiceps Reitt., Jacobson Käf. Russl. Lief. vii p. 495.

Euryodma subg. n. von Aleochara (brevipennis Gr.), REITTER Fauna Germ. 2 pp. 23 & 24.

Euryquedius subg. n. von Quedius (curtus), REITTER p. 108 T.c.

Eurysunius subg. n. von Astenus (= latus etc.), Reitter p. 149 T.c.

Euvira testacea sp. n. Argentinien, Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225-251.

Falagria pergracilis sp. n. Mexiko, Schubert D. ent. Zs. 1909 p. 287.— F. incerta sp. n. Bolivien, Bernhauer Firenze Boll. Entom. 40 pp. 225-251.

Falagriola gen. n. für Falagria nigra p. 41, lutzi sp. n. Transkaspien p. 75, Reitter Fauna Germ. 2.

Geostiba praefixa sp. n. Tunis, Normand p. 191 Bull. Soc. ent. France 1909.

—G. chlorotica navarica subsp. n., de Peyerimhoff p. 225 Bull. Soc. ent. France 1909.—G. bordei sp. n. Algeiia, Peyerimhoff p. 278 T.c.

Gnypeta boliviana sp. n. Bolivien, BERNHAUER Firenze Boll. Soc. Entom. 40 pp. 225-251.

Gyrophaena vosseleri sp. n. O.-Afrika, Eichelbaum Zs. wiss. Insektenbiol. 5 p. 316.—G. bernhaueri n. n. pro puncticollis Bernh., Jacobson Käf. Russ. Lief. vii p. 533.—G. nana var. n. nigriventris Mähren, Fleischer p. 332 Ent. Ztg. Wien 28.

Halobrechthina subg. n. zu Atheta, BERNHAUER D. ent. Zs. 1909 p. 519.

Hasumius ertli, ganglbaueri, p. 88, puncticollis, iringanus, Ostafrika, spp. n., Bernhauer p. 89 Ent. Ztg. Wien 28.

Heterothops mexicanus sp. n. Mexico, Schubert D. ent. Zs. 1909 p. 290.

Holisus planus sp. n. Mexiko, Schubert p. 295 T.c.

Homalota scotica sp. n. Scotland, ELLIMAN p. 33 Ent. Rec. 21.—H. parens, CHAMPION p. 5 Ent. Mag. 45.
—H. fussi, CHAMPION p. 31 T.c.—H. dilaticornis in truffles, testaceipes in wasp's nest, Joy p. 277 Ent. Mag. 45.

Homoeusa acuminata var. n. tomentosa Kaukasus, Reitter Fauna Germ. 2 p. 38.

Hyperomma tenellum sp. n. New Zealand, Broun p. 227 Ann. Nat. Hist. 3.

Lathrobium quadratum var. n. rufonitidum Lenkoran, ab. n. rufopacum Deutschland, p. 142, styliferum sp. n. Kaukasus p. 143, REITTER Fauna Germ. 2.—L. punctatum var. n. gracile Ost-Sibirien, Poppius Helsingfors Ofvers F. Vet. Soc. 51 A No. 4.—L. czwalinai n. n. pro decipiens Czwal. praeocc., Jacobson Käf. Russl. Lief. vii p. 492.

Leptusa carinata, cephalotes, Piemont, asiatica Asia Minor, duboisi Versailles, spp. n., puellaris subsp. n. knabli M. Pasubio, Bernhauer Soc. entomol. 23 pp. 179-180.

Lesteva longelytrata var. n. dorsalis Araxestal, Reitter Fauna Germ. 2 p. 184.

Lispinodes americanus sp. n. Brasilien, Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225-251.

Lispinus holosinus sp. n. Usambara, FAUVEL p. 95 Rev. Ent. 27.—L. strictus sp. n. Brasilien, BERNHAUER Firenze Boll. Soc. Entom. 40 pp. 225-251.

Medon apicipennis Brasilien etc., orbicollis Argentinien, spp. n., BERN-HAUER Firenze Boll. Soc. Entom. 40 pp. 225-251.

Megacronus mexicanus sp. n. Mexico, Schubert D. ent. Zs. 1909 p. 289.

Megalops laevipennis, bolivianus, gestroi, Bolivien, quadrimaculatus Brasilien, spp. n., BERNHAUER Firenze Boll. Soc. Entom. 40 pp. 225-251.

Metoponcus lineatus sp. n. Mexiko, Schubert D. ent. Zs. 1909 p. 296.

Micralymma; Poppius Medd. Soc! Fauna Fenn. 35 pp. 96-99.

Microdota montandoni sp. n. Rumaenien, Roubal Čas. České Spol. Entomolog. 1909 p. 27.

Mycetoporus reichei var. n. subpronus, REITTER Fauna Germ. 2 p. 102.

Myrmecopora brevipes sp. n. England, BUTLER p. 29 Ent. Mag. 45.—M. (Xenusa) buresi sp. n. Bulgarien, RAMBOUSEK Věstn. České Spol. Náuk. 1909 p. 19.

Myrmecosaurus gen. n Paederinorum, solenopsidis sp. n. Brasilia, Wasmann Zool. Anz. 34 p. 765.

Myrmedonia strigosipennis sp. n. Mexico, Schubert D. ent. Zs. 1909 p. 288.

Ocalea fusca sp. n. Arizona, Fenyes Ent. News 20 p. 424. Ocyusa (Leptusina) ferdinandicoburgi sp. n. Bulgarien, Rambousek Věstn. České Spol. Náuk. 1909 p. 20.

Omalium venator sp. n. Campbell Isl., Broun Subantarct. Isl. New Zealand 1 p. 98.—O. flavipalpi p. 228, planimarginatum p. 229, setipes p. 230, spp. n., New Zealand, Broun Ann. Nat. Hist. 3.

Oxypoda pallidicornis Jakutsk p. 47, O. (Podoxya) atratula Shigansk p. 49, coprophila Olekminsk p. 50, O. (Sphenomma) lenense Ost Sibirien p. 51, spp. n., Poppius Helsingfors Ofvers. F. Vet. Soc. 51 A No. 4.

Oxytelus nitidus var. n. subnitidus Kaukasus, Reitter Fauna Germ. 2 p. 171.—O. crenaticollis, miriceps, spp. n., Usambara, FAUVEL p. 96 Rev. Ent. 27.

Paederomimus cupreonitens, nigrocyancus, Moxiko, spp. n., Schubert D. ont. Zs. 1909 p. 294.

Paederus altivagans nom. n. for alticola Fauv., Fauvel p. 95 Rev. Ent. 27. —P. flavocaudatus sp. n. Bolivien, Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225-251.

Palaminus bolivianus, balzani, Bolivien spp. n., Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225-251.

Parabemus subg. n. von Staphylinus (= fossor Scop.), Reitter Fauna Germ. 2 p. 118.

Paradilacra subg. n. zu Atheta, Bernhauer D. ent. Zs. 1909 p. 517.

Pellochromonia subg. n. von Myrmedonia (ruficollis), REITTER Fauna Germ. 2 p. 43.

Philonthus ancora Transkaspien p. 125, rufimargo Armenisches Gebirge p. 128, uralensis Südrussland p. 131, spp. n., Reitter T.c.—P. grandiceps, Tscheljabinsk p. 24, subnitens Lena p. 26, spp. n., Poppius Helsingfors Ofvers. F. Vet. Soc. 51 A No. 4.—P. fuentei sp. n. Spanien, Roubal Čas. České Spol. Entomolog. 1909 p. 100.—P. japonicus var. n. bernhaueri Kurilen, Roubal Wien Verh. Zoolbot. Ges. 59 p. 373.—P. semicyaneus p. 290, laeviventris, discedens, p. 291, vagepunctatus, speculicollis, p. 292, crinitus, proportionalis, p. 293, Mexiko spp. n., Schubert D. ent. Zs. 1909.—P. bonariensis

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" - 407 3 tec.

Phyllodrepa alutacea sp. n. Circassien, REITTER Fauna Germ. 2 p. 193.

Pinophilus turcomannum Transcaspia p. 302, zarudnyi, Persia spp. n., zarudnyi ab. n. fulviventris p. 303, Semenov Rev. russ. ent. 8.—P. proximus Brasilien, denticeps Montivideo, sworii Argentinien, spp. n., Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225-251.

Polycharina subg. n. von Aleochara (grisea Kr.), Reitter Fauna Germ. 2 pp. 22 28.

Polystomaria nom. n. für Polystoma Steph. nec Zeder, REITTER p. 22 T.c.

Proteinus crenulatus and limbatus, Sharp p. 267 Ent. Mag. 45.

Protopristus gen. n. Aleocharinae p. 225, minutus sp. n. New Zealand p. 226, Broun Ann. Nat. Hist. 3.

Pseudoleptusa gen. n. near Atheta p. 34, fasciata sp. n. Lena p. 35, Por-PIUS Helsingfors Ofvers F. Vet. Soc. 15 A No. 4.

Quediini; Schlüssel der Coleopteren Böhmens. i Staphylinidae, RAMBOU-SEK Cas. České Spol. Entomolog. 1908 pp. 37-55.

Quedius microphthalmus sp. n. Kaukasus p. 109, rufipes var. n. lutzi Lenkoran p. 115, REITTER Fauna Germ. 2. —Q. hilaris sp. n. New Zealand, Broun p. 226 Ann. Nat. Hist. 3.

Rhopalocerina nom. n. pro Rhopalocera Ganglb. (subgen. von Atheta), REITTER Fauna Germ. 2 p. 55.

Rhopalopherus gen. n., gestroi sp. n. Argentinien, Bernhauer Firenze Boll. Soc. Entom. 40 pp. 225-251.

Schubert D. ent. Zs. 1909 p. 295.

Scymbalopsis gen. n. für Scymbalium grandiceps, Reitter Fauna Germ. 2 p. 139.

Silusa densa, opaca, p. 418, spp. n. California, Fenyes Ent. News 20.

Sipalia deubeli Siebenbürgen, graeca Kephallenia, arazcooana Italia, insularis Sardinia, spp. n.; Bernhauer Ent. Bl. 5 pp. 102-104.

Staphylinus amoenus sp. n. Südrussland, falcifer ab. n. bonnairei Frankreich, atronitidus sp. n. Cypern, REITTER Fauna Germ. 2 p. 122.

Stenagria schneideri sp. n. Mexico, Schubert D. ent. Zs. 1909 p. 287.

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Tanygnathinus nom. n. für Tanygnathus Er. nec. Wagl., Reitter Fauna Germ. 2 p. 105.

Thinobius pallidus sp. n. England, NEWBERY p. 4 Ent. Mag. 45.—T. perpusillus sp. n. Bulgarien, RAMBOUSEK Věstn. České Spol. Náuk. 1908 p. 19.

Thinocharis bernhaueri n. n. pro brevicornis Bernh. praeocc., Jacobson Käf. Russl. Lief. vii p. 493.

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Tychus; Phänomenen der Poecilandrie, der Poecilogynie und der individuellen Veränderlichkeit, GRANDI D. ent. Zs. 1909 pp. 537-550 2 Taf.—T. crassicornis sp. n. Japan, Raffrax Paris Ann. soc. ent. 78 p. 40.

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Euconophron subg. n. von Euconnus = promptus etc., REITTER Fauna Germ. 2 p. 226.

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Thanotophilus Leach, Synopsis specierum, quae elytra tuberculis vel rugis ornata habent, sachalinicus sp. n. Sachalin, Kieseritzky Rev. russ. ent. 9 pp. 126-127.

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ADIMERIDAE, RHYSODIDAE.

Adimerus and Monoedus, Arrow p. 195 Ann. Nat. Hist. 4.

Coleopterorum Catalogus Pars 1, Rhysodidae, Gestro Berlin 1910 (1909) p. 11.

CUPESIDAE.

†Priacma tessellata, Le Cupes de l'ambre de la Baltique, Peyerimhoff Paris Bul. soc. ent. 1909 p. 57.

CUOUJIDAE.

Hymaea Pascoe, referred to Cucujidae, Arrow p. 193 Ann. Nat. Hist. 4.

Inopeplus grandis sp. n., GROUVELLE Kilimandjaro-Meru Exp. 7 15 p. 327.

Ipsaphes morosus distinguished from Platisus obscurus, Arrow p. 192 Ann. Nat. Hist. 4.

Laemophloeus decoratus p. 13, lucidus p. 15, opaculus p. 16, divergens p. 17, patens p. 18, eichelbaumi p. 19, Amani, spp. n., Grouvelle Rev. ent. Caen 27.—L. exornatus p. 167, mobilis p. 168, linearis p. 170, Africa, spp. n., Grouvelle T.c.—L. reitteri=(breviceps Sharp), Arrow p. 192 Ann. Nat. Hist. 4.

Psammaecus excellens sp. n. Afrique orientale, Grouvelle Rov. ent. 27 p. 115.—P. marginicollis p. 181, grandis p. 183, excellens p. 185, Africa, spp. n., Grouvelle T. c.

Silvanus oblitus sp. n. Dar-es-Salam, GROUVELLE p. 116 T.c.

Telephanus sharpi nom. n. for gracilis Sh. nec. Schauf., Arrow p. 193 Ann. Nat. Hist. 4.

CRYPTOPHAGIDAE.

Antherophagus pallens and Bomb. muscorum, Cottam Lanc. Nat. 2 p. 266.

Atomaria marginata sp. n. Turkestan, Fleischer p. 271 Ent. Ztg. Wien 28.

Diphyllus fulvus p. 328, sjoestedti p. 329, spp. n., Grouvelle Kilimandjaro-Meru Exp. 7 15.

Glisonotha kolbei sp. n. Amani, GROUVELLE Rev. ent. Caen 27 p. 122.

Hapalips eichelbaumi sp. n. Amani, GROUVELLE p. 119 T.c.

Leucohimatium nigrosuturale sp. n. Turkestan, Reitter p. 101 Ent. Ztg. Wien 28.

Micrambe varicolor p. 331, subinfuscata p. 332, spp. n., GROUVELLE Kilimandjaro-Meru Exp. 7 15.—M. eichelbaumi p. 122, zanzibarica p. 123, Africa or., spp. n., GROUVELLE Rev. ent. Caen 27.—M. goliath p. 189,

convexa p. 190, minuta p. 191, peringueyi p. 193, kolbei p. 194, reitteri p. 196, dubia p. 197, punctata p. 199, hirta p. 200, zanzibarica, eichelbaumi, p. 203, Africa, spp. n., GROUVELLE T.c.

Tomarus eichelbaumi sp. n. Dar-es-Salam, Grouvelle p. 125 T.e.

LATHRIDHDAE.

Corticaria (Melanophthalma) nidicola sp. n. Méxique, Grouvelle Bul. Muséum Paris 1909 p. 245.

MYCETOPHAGIDAE.

Triphyllus pubescens sp. n. New Zealand, Broun p. 395 Ann. Nat. Hist.

Typhaea fusca sp. n. Africa or., GROUVELLE Rev. ent. Caen 27 p. 205.

BYTURIDAE, DERMESTIDAE.

Ignotus aenigmaticus is Thelydrias contractus Motsch., Zaitzev p. 37 Canad. Ent. 41.

Satorystia meschniggi Rcitt., to Byturidae, Reitter p. 312 Ent. Ztg. Wien 28.

THORICTIDAE.

Thorictus lebedewi Transkaukasien, duplimargo Mesopotamien, spp. n., REITTER Ent. Ztg. Wien 28 p. 317.—
T. laticollis Transkaspien, KARAWAJEW Rev. russ. ent. St. Peterburg 9 p. 228.

BYRRHIDAE.

Cyphonicus Sharp synonymous with Byrrinus Motsch., ARROW p. 195 Ann. Nat. Hist. 4.

Limnichus pruinosus sp. n. Samarkand, Fleischer p. 244 Ent. Ztg. Wien 28.

Liochoria sumptuosa p. 103, longula p. 104, Auckland Isl., spp. n., Broun Subantarct. Isl. New Zealand 1.

Morychus tumidellus sp. n. The Snares, Brown p. 102 T.c.

Pedilophorus pulcherrimus sp. n. New Zealand, Broun p. 396 Ann. Nat Hist. 3.

PARNIDAE = DRYOPIDAE.

Dryops (Parnus) anglicanus sp. n. England, Edwards p. 218 Ent. Mag. 45.

Riolus, the British species, EDWARDS pp. 76-78 T.e.

GEORYSSIDAE, HETEROCERIDAE.

Georyssus bicolor p. 128, granifer p. 130, tuberifer p. 131, alticosta p. 132, Africa spp. n. Grouvelle Bull. Soc. ent. France 1909.

Heterocerus soudanicus p. 134, sennarensis p. 135, parvus p. 137, spp. n. Africa, Grouvelle T.c.

LUCANIDAE.

Aegus schenklingi sp. n. Sumatra, Möllenkamp Intern. ent. Zs. 3 p. 59.

Cardanopsis gen. n. near Figulus, bicolor sp. n., BOILEAU Kilimandjaro-Meru Exp. 7 17 figs.

Cyclommatus eximius sp. n. Nova Guinea, Möllenkamp Intern. ent. Zs. 3 p. 3.

Dorcus parallelus nanus subsp. n., Casex p. 278 Canad. Ent. 41.

Eurytrachelus pectinicornis Nova Guinea, capricornis Shetlands Ins., spp. n., Möllenkamp Intern. ent. Zs. 3 p. 3

Mitophyllus reflexus sp. n. Chatham Islands, Broun Wellington Trans. N. Zeal. Inst. 41 p. 148.

Neolucanus castanopterus var. n. cephalotes Formosa, Möllenkamp Intern. ent. Zs. 3 p. 58.

Odontolabis cuvera var. n. mandibularis, Möllenkamp p. 3 T.e.

Platycerus peregrinus sp. n. Oregon, quercus angustus and q. iowanus subspp. n., Casex p. 280 Canad. Ent.

Pseudolucanus busignyi sp. n., p. 173 figs. 1 & 2, Planet Naturalist 31.

SCARABAEIDAE.

Classification of *Lamellicornia*, specially of the Laparosticti, Arrow pp. 479-487 Tr. ent. Soc. London 1909.

Coprini.

Acanthaphodius gen. n. near Aphodius, bruchi sp. n. Rio Negro, Schmidt Soc. entomol. 24 p. 67.

Aphodius; synonymische Bemerkungen, Notizen über Aph. fastigiatus und infuscatopennis, SCHMIDT Leiden Notes Mus. 31 pp. 122, 123.—A.

(Mendidius) adolfischmidti p. 75, A. tricornifrons, Uralsk, A. (Pseudacrossus) zurcheri Kleinasien, p. 76, REITTER Ent. Ztg. Wien 28.—A. bolassogloi König identisch mit turkestanicus Heyd., REITTER p. 110 T.c.—A. argentinensis Argentina, apertus Caffrarien, trimaculatus Weyns Prov. Orient., impolitus Ungarn, peringueyi sericeus, Senegal, magnificus Abessinien, planatus Deutsch Ost-Afrika, unicornutus Rhodesia, ritsemai Sikkim, javanus Batavia, nigellus Java, tectoformibus Manila, spp. n., Schmidt Leiden Notes Mus. 31 pp. 101-115.—A. furcatus Matto Grosso p. 10, segmentaroides Vorderindien p. 11, gilleti Kongo p. 11, infuscatopennis Argentinien p. 12, calvus S.-Afrika p. 19, bimaculosus Mexiko p. 19, spp. n., elegans var. n. expletus Yünnan p. 20, sordidus var. n. nigromaculatus Yünnan p. 20, biimpressus Paraguay p. 177, curvodilatatus p. 177, atroscutellatus S.-Afrika p. 188, nigrosulcatus Yünnan p. 189, spp. n., Schmidt Soe. entomol. 23.—A. paykulli nov. n. pro A. tessulatus Payk. non Laieh., BEDEL Abeille 31 p. 56.

Ataenius insolitus Senegal, scabrellus Venezuela, setosus Kongo, rethianus Sumatra, spp. n., Schmidt Leiden Notes Mus. 31 pp. 116-120.—A. confertus sp. n. Lower California, FALL p. 162 Canad. Ent. 41.—A. angusticollis Bolivia p. 20, punctatohirsutus Argentinia p. 36, imbricatoides Argentinia p. 36, perbrevitarsis Kamerun p. 43, transversarius Bolivia p. 43, spp. n., Schmidt Soc. entomol. 24.

Athyreus hastifer Rio Grande do Sul, tribuliformis Iquitos, similis Minas Geraes, tuberifer Pernambuco, corniculatus Venezuela, biceps Haiti, centromaculatus Brasilia, spp. n., Felsche D. ent. Zs. 1939 pp. 759-764.

Bolbochromus subgen. n. of Bolboceras type B. laetus Westw., BOUCOMONT Paris Bul. soc. ent. 1909 p. 117.

Bradycinetus quinquedentatus sp. n. Argentinia, Felsche D. ent. Zs. 1909 p. 764.

Caccobius pseudolaevis p. 65, pentagonus p. 66, cavatus p. 67, multifidus p. 68, quadridens p. 70, spp. n. Afrique, Orbigny Paris Ann. soc. ent. 77.

Ceratophyus martinezi sp. n. Spain, LAUFFER p. 275 Bol. Soc. espan. 9. Chaetodus exaratus sp. n. Brazil, Arrow p. 491 Tr. ent. Soc. London 1909.

Chironitis granulipennis sp. n. Mittelpersien, Reitter p. 80 Ent. Ztg. Wien 28.—C. asbenicus sp. n. Sahara, Gillet Bull. Mus. Paris 1909 p. 435.

Coelodes fumipennis Amazons, punctipennis Ecuador, spp. n., ARROW Tr. ent. Soc. London 1909 p. 49.

Copris; synonymy, sexes, etc., GILLET pp. 287-302 D. ent. Zs. 1909.

Coptodactyla acuticeps, monstrosa, spp. n. Cap York, Felsche D. ent. Zs. 1909 p. 754.

Corythoderus casperi sp. n. Südwestafrika, Kolbe Berliner ent. Zs. 54 p. 59.

Cryptogenius fryi sp. n. Petropolis, ARROW p. 501 Tr. ent. Soc. London 1909.

Dendropemon ganglbaueri Brasilia, fractipes Domerara, crenatostriatus Brasilia, tenuitarsis Paraguay, denticollis Goyaz, spp. n., Felsche D. ent. Zs. 1909 pp. 755-758.

Dialytes foveatus Japan p. 61, granifer N. S. Wales p. 67, spp. n., Schmidt Soc. entomol. 24.

Drepanocerus runicus sp. n. Burma, Arrow p. 93 Ann. Nat. Hist. 4.

Enoplotrupes (Gynoplotrupes) latus sp. n. Yunnan, Boucomont Paris Bul. soc. ent. 1909 p. 16.

Euparia separata Paraguay p. 44, bitubericollis Argentinia p. 44, africana Malinde p. 54, spp. n., Schmidt Soc. entomol. 24.

Geotrupes; Notes on German species, Ohaus D. ent. Zs. 1909 pp. 105-111.—G. typhoeus Biologie, Lucas Ent. Bl. 5 pp. 36-39 & 55-59.—G. mutator var. n. fulvopubens Uralsk, REITTER p. 77 Ent. Ztg. Wien. 28.—G. geminatus, Schulz Ent. Bl. 5 p. 144.—G. aeneus sp. n. Senegal, Felsche D. ent. Zs. 1909 p. 765.

Gymnopleurus mopsus Pall. var. n. persianus, Reitter p. 79 Ent. Ztg. Wien 28.—G. puncticollis sp. n. Sahara, GILLET Bull. Mus. Paris 1909 p. 434.—G. bicallosus India, asperrimus S. W. Afrika, spp. n., Felsche D. ent. Zs. 1909 p. 751.

Heliocopris cuneifer sp. n. L'Abyssinie, LESNE Mission en Ethiopie p. 106.

Heptaulacus iniquus sp. n. Yünnan, Schmidt Soc. entomol. 24 p. 20.

Holocephalus Hope = (Atrichius Gill), GILLET p. 302 D. ent. Zs. 1909.

Hybochaetodus gen. n. near Chaetodus, obscurus sp. n. Peru, Arrow p. 500 Tr. ent. Soc. London 1909.

Hybosorus rufulus, & , Arrow p. 487 T.c.

Hypseloderus to Troginae, ARROW p. 488 T.c.

Idiostoma includes Orycetes landbecki Phil., and Phyllognathus paulseni and simplicifrons Fairm., Arrow p. 502 'I'.c.

Lethrus karelini var. n. subaurosus Turkestan, REITTER p. 78 Ent. Ztg. 28.—L. crenulatus Gebl. p. 30, furcatus, Beschreibung, p. 31, marguardti Rttr. = scoparius F. v. W., scoparius Rttr. = laevigatus Ball. p. 31, SEMENOV Rev. russ. cnt. 9.

Liparochrus ingens sp. n. Neu Guinea, Felsche D. ent. Zs. 1909 p. 704.— L. dux New Guinea p. 489, timidus N. Australia p. 490, spp. n., Arrow Tr. ent. Soc. London 1909.

Milichus rhodesianus var. n. trinotatus, Orbigny Paris Ann. soc. ent. 77 pp. 65-208.

Ochodæus; synopsis of N. American, kansanus Kansas and New Mexico p. 34, repandus Arizona p. 36, spp. n., United States, FALL New York J. Ent. Soc. 17.

Oniticellus tuberculicollis sp. n. Abessinia, Felsche D. ent. Zs. 1909 p. 449.

Onitis aethiops sp. n. L'Abyssinie, LESNE Mission en Ethiopie p. 108.—
O. gazanus sp. n. Mashonaland, Arrow p. 519 Ann. Nat. Hist. 3.—O. artuosus p. 501, colonicus p. 503, lamnifer p. 504, spp. n., Africa trop., reichei var. n. rhodesianus p. 504, GILLET Ann. Soc. ent. Belgique 53.—O. tricornutus Fairm., Felsche p. 758 Deutsche ent. Zs. 1909.—O. africanus nov. nom. pro O. sphinx van Lansberge (1875) nec. Fab., GILLET Bull. Mus. Paris 1909 p. 435.

Onthophagus fortigibber Kaukasus p. 79, trihastatus Mesopotamia p. 78, spp. n., Reitter Ent. Ztg. Wien 28.—O.

bisbicornis sp. n. Congo, d'Orbigny p. 98 Ann. Soc. ent. Belgique 53 .o. fossulatus p. 72, atricapillus p. 74, stuhlmanni p. 75, subsulcatus p. 76, nodieri p. 78, waterloti p. 79, miscellaneus p. 80, kassaicus p. 81, subdivisus p. 83, amplicornis p. 84, clitellarius p. 86, nigripennis p. 87, punctulatus p. 88, fuscatus p. 89, rugipennis, nudus, p. 91, angularis p. 92, minutissimus p. 94, rabellus p. 95, ornatulus p. 96, marshalli latestriatus p. 103, adspersus p. 105, cylindroides p. 107, miriceps p. 108, furcimargo p. 110, laticeps p. 111, brevifrons p. 112, carinidorsis p. 113, picturatus p. 115, naevuliger p. 116, fungicola p. 117, politissimus p. 119, rasipennis p. 120, producticollis p. 122, mediofuscatus p. 124, quadricuspis p. 125, spp. n. Africa, choloderus var. n. limitans p. 127, amoenus p. 128. albicomus p. 129, maculosus p. 131, parcepiclus p. 132, horrins p. 134, horridus p. 135, pseudamoenus p. 136, seminitidus p. 137, nigropubens p. 138, sanguinolentus p. 140, atrovittatus p. 141, binodosus p. 142, flexifrons p. 146, deflexus p. 146, parifrons p. 147, aspericeps p. 148, convexus p. 149, proximus p. 150, gravoti p. 152, vassei p. 153, spp. n., bidens Ol. var. n. purus, rufipennis d'Orb. var. n. xanthopterus, p. 154, subulifer p. 156, inermicollis p. 157, graniceps p. 158, burchelli p. 159, hericius p. 160, juncticornis p. 162, viridiaereus p. 163, atroaereus p. 164, numidicus p. 165, angulicornis p. 167, tesseratus p. 169, acutus p. 170, pallens p. 172, spp. n., Africa, O. (Phalops) gallanus var. n. hilarior, tricuspis p. 173, princeps p. 175, pyroides p. 177, densegranosus p. 179, spp. n. Africa, O. (Proagoderus) ramosicornis var. n. flammans p. 180, rarus var. n. viridicans p. 181, multicornis p. 182, tricornifrons p. 184, quadrituber p. 186, quadrispinosus p. 188, colmanti p. 191, subcostatus p. 194, quadricostatus p. 195, speculatus p. 199, taymansi p. 200, biarmatus p. 201, O. (Diastellopalpus) gilleti p. 203, spp. n. Africa, Orbigny Paris Ann. soc. ent. 77. -0. arizonensis sp. n. Arizona, Schaeffer Brooklyn Mus. Bull. 1 p. 382.

Oxyomus curvus Kamerun p. 54, aciculatus Carin Cheba p. 55, spp. n., SCHMIDT Soc. entomol. 24.

Phaeochroops peninsularis Perak p. 492, opacicollis Tenasserim, vulpecula Mentawei isld., p. 493, rathus Sumatra, niasianus Nias isld., p. 494, batuensis Batu, mentaweiensis Mentawei isld., p. 495, spp. n., Arrow Tr. ent. Soc. London 1909.

Phaeochrous dissimilis Tenasserim, pallidus India, p. 496, arabicus Yemen, nitidus E. Africa, p. 497, mashunus Mashonaland p. 498, amplus, camerunensis, thomensis, W. Africa, p. 499, spp. n., Arrow T.c.

Phaeocridius, characters, ARROW p. 488 T.c.

Phanaeus ignecinctus sp. n. Peru, Felsche D. ent. Zs. 1909 p. 755.

Pleocoma; taxonomy, Arrow p. 483 Tr. ent. Soc. London 1909.—P. staff, trophi pl. v. f. 1 & p. 431, Ohaus D. ent. Zs. 1909.

Psammobius indefensus sp. n. Valparaiso, Schmidt Soc. entomol. 24 p. 60.

Rhyparus neumanni sp. n. Abessinia, FELSCHE D. ent. Zs. 1909 p. 451.— P. nilgirensis sp. n. India, Arrow p. 94 Ann. Nat. Hist. 4.

Rhyssemus rothschildi sp. n. Afrique orientale, BÉNARD Bul. muséum Paris 1909 p. 106 fig. p. 107.—R. sexcostatus sp. n. O.-Afrika, Schmidt Soc. entomol. 24 p. 61.

Saproecius setosus sp. n. Sahara, GILLET Bull. Mus. Paris 1909 p. 434.

Saprosites verecundus sp. n. Mentawei, Schmidt Leiden Notes Mus. 31 p. 121.

Scarabaeus aegyptiorum, festivus, notes on, nigroaeneus var. n. intermedius, GILLET Leiden Notes Mus. 31 pp. 191-194.

Sisyphus angulicollis Kamerun, biarmatus Usambara, spp. n., Felsche D. ent. Zs. 1909 pp. 752-753.—S. callosipes p. 517, gazanus p. 518, spp. n., Africa, Arrow Ann. Nat. Hist. 3.—S. tarantula Ceylon p. 92, morio N. China p. 93, spp. n., Arrow Op. cit. 4.

Sybacodes aureopilosus sp. n. Yünnan, Schmidt Soc. entomol. 24 p. 60.

Trox demaisoni ist var. von transversus, REITTER p. 110 Ent. Ztg. Wien 28.—T. scaber = (trisulcatus Curt.), ARROW p. 501 Tr. ent. Soc. London

1909.—*T. opacus* sp. n. Uma, Felsche D. ent. Zs. 1909 p. 450.

†T. antiquus sp. n. Colorado Tertiary, Wickham Amer. J. Sci. 28 p. 129.

Xynophron Har. = (Maraxes Lew.), LEWIS p. 304 Ann. Nat. Hist. 4.

Glaphyrini.

Aclopus; systematic position, pp. 426-431, brunneus Er. p. 431, Ohaus D. ent. Zs. 1909.—A. robustus sp. n. Brazil, Arrow p. 507 Tr. ent. Soc. London 1909.

Phaenognatha angusta, tristis, p. 504, aequistriata, scutellata, p. 505, pusilla p. 506, spp. n. Australia, Arrow Tr. ent. Soc. London 1909.—P. richteri sp. n. Buenos Aires, Ohaus D. ent. Zs. 1909 p. 447.

Melolonthini.

Acylochilus gen. n. Leptopodidae p. 433, strumosus p. 434, ottianus p. 435, spp. n. Argentina, Ohaus D. ent. Zs. 1909.

Anoxia zuercheri sp. n. Marocco, REITTER Ent. Bl. 5 p. 119.

Apogonia (Rhynchogonia) minima sp. n. Congo, Arrow p. 519 Ann. Nat. Hist. 3.

Castanochilus gen. n. Leptopodidae, bruchianus sp. n. Argentinu, Ohaus D. ent. Zs. 1909 p. 436.

Chioneosoma sequensi Rttr. = Rhizotrogus candidus Sem., Ch. kizilkumensis Rttr. = Rh. senex Sem., Ch. farinosa Rtt. = Rh. glazunovi Sem., Ch. molaris Rttr. = Rh. turcomanus Brenske, Semenov Rev. russ. ent. 9 p. 32.

Coenonycha clementina sp. n. San Clemente isld., Casey p. 281 Canad. Ent. 41.

Brahmina adaequata Sikkim p. 475, foveata Tonkin p. 476, moluccana Dammer isld. p. 477, spp. n., Moser Ann. Soc. ent. Belgique 53.

Burmeisteriellus mirabilis, Ohaus p. 437 D. ent. Zs. 1909.

Demodema aulai p. 349, bonariensis p. 350, distincta p. 351, spp. n., Argentina, Вииси Rev. Mus. La Plata 16.

Diplotaxis mimosae p. 22, bowditchi p. 25, villosa p. 26, hispida p. 29, fissi-

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Eusoma aenealis sp. n. New Zealand, Broun p. 397 Ann. Nat. Hist. 3.

Haplidia bodemeyeri sp. n. Kleinasien, Reitter 219.

Heteronyx oodnadattae p. 24, declaratus p. 25, tarsalis, griffithi, p. 26, suavis p. 27, tropicus p. 28, tenebrosus, incomptus, p. 29, umbrinus, dux, p. 30, firmus p. 31, frenchi p. 32, leai, callabonnae, p. 33, imitator p. 34, femoralis p. 35, luteolus, asperifrons, p. 36, queenslandicus p. 37, ponderosus p. 39, spissus p. 40, sexualis p. 41, coatesi p. 42, tasmanicus, quaesitus, p. 54, perkinsi p. 55, mundus p. 56, socius p. 57, metropolitanus, ingratus, p. 58, hothamensis p. 59, debilicollis p. 60, taeniensis p. 61, elongatus p. 62, eremita p. 63, nigrescens p. 64, affinis p. 65, nubilis p. 66, elytrurus, copiosus, p. 67, orbus p. 68, interioris o. 69, sulcifrons, striatus, p. 70, salebrosus p. 71, seriatus, carteri, p. 72, comans p. 73, exectus p. 74, monticola, intermedius, p. 75, thoracicus p. 76, additus p. 77, blandus, prosper, p. 78, relictus p. 79, Australia, spp. n., BLACK-BURN Trans. R. Soc. S. Austral. 33.

Holotrichia impressicollis China p. 468, madurensis India p. 469, formosana Formosa p. 470, longiuscula Annam, scutata China, p. 471, insectata p. 472, rugiceps p. 473, Java, carinifrons Sikkim p. 474, convexifrons Ceylon p. 475, spp. n., Moser Ann. Soc. ent. Belgique 53.

Hoplia jakobsoni var. n. leonhardi Persien, Reitter p. 56 Ent. Ztg. Wien 28.—H. brunnipes, Du Buysson Misc. Ent. 17 pp. 12-14.

Lachnosterna georgiana sp. n. Georgia p. 382, L. lenta synonym of arkansana p. 383, Schaeffer Brooklyn Mus. Bull. 1.

Lewisiella gen. n. near Odontria p. 398, modesta p. 399, capito p. 400, spp. n., New Zealand, Broun Ann. Nat. Hist. 3.

Melolontha hippocastani, vulgaris, Flugjahre, Ogievskij Lěsoprom. věst. 11 pp. 197–204 209–214.—M. vulgaris, Larve Schädling von Fichtenschonungen, Gladilin Lěsn. žurn. 39 pp. 569–583.—M. hippocastani Futterpflanzen und Schaden der Larven an Kiefern, Ogievskij Trd. lěsn. opytn. děl. 16 pp. 1–84.

Myloxena gen. n. (Burm. & Berg) Leptopodidae p. 438, vestita (Berg) p. 439, patagonica, bruchiana, p. 440, spp. n. Argentina and Patagonia, Ohaus D. ent. Zs. 1909.

Odontria praelatella sp. n. New Zealand, Broun p. 400 Ann. Nat. Hist. 3

—O. longitarsis sp. n. The Snares,
Broun Subantarct. Isl. New Zealand
1 p. 105.

Philochloenia centralis p. 342, argentina p. 343, piottii p. 344, tucumana p. 345, ohausi p. 346, cuyana p. 347, spp. n., Argentina, Bruch Rev. Mus. La Plata 16.

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Polypdylla fullo, Lebensweise, Grund Zs. wiss. Insektenbiol. 5 pp. 67-68.

Rhizotrogus leonhardi p. 118, peratratus p. 119, Persia, spp. n., REITTER Ent. Bl. 5.—Rhizotrogus solstitialis Ansteckung der Larven durch Microphtalma, Krasiliščiik Kišinev Trd. Obšč. jest. 1 pp. 358-395; Futterpfianzen und Schaden der Larven an Kiefern, Ogievskij Trd. lesn. opytn. del. 16 pp. 1-84.

Tanyproctus persicola Mittelpersien p. 81, T. (Tanyproctocera) kriecheldorfi Kleinasien p. 80, spp. n., Reitter Ent. Ztg. Wien 28.

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Adoretus sterbae sp. n. Kleinasien, REITTER p. 82 Ent. Ztg. Wien 28.— A. flavovittatus pl. vii f. 7 & p. 190, fuscovittatus p. 191, spp. n., Africa, Arrow Tr. 200l. Soc. 19.

Anisoplia austriaca, fruticola, Bau der Larven, Golovianko Lešn. žurn. 39 p. 1342 fig.—A. austriaca and P. horticola Ansteckung der Larven durch Microphtalma Krasiliščia Kišinev. Trd. Obšč. jest. 1 pp. 358-395.—A. aetolica Griechenland, bulgarica Bulgaria, imitatrix Turkci, spp. n., lata subspp. n. lamiensis Griechenland, macedonica, Affelbeck Sarajevo Glasn. Zem. Muz. Bosn. Herceg. 21 pp. 495-504.

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Eremophygus gen. n. philippii sp. n. Chile, Ohaus Stettiner ent. Ztg. 71 pp. 21-22.

Eunanus gen. n. Geniatidae, murinus sp. n. Argentina, OHAUS D. ent. Zs. 1909 p. 442.

Heterogeniates gen. n. Geniatidae, bonariensis sp. n. Argentina, Ohaus p. 444 T.c.

Leucothyreus stempelmanni sp. n. Argentina, Oнaus p. 446 T.c.

Phyllopertha horticola, Schaden an Kiefern (Russ.), Ogievskij Trd. lësn. opyt. dël. 16 pp. 1-84.

Platycoelia simplicior sp. n. Argentina, Ohaus D. ent. Zs. 1909 p. 441.

Popillia runsorica sp. n. Ruwenzori, Arrow p. 190 Tr. zool. Soc. 19.

Rhizogeniates gen. n. (= Rhizobia Dej.) Geniatidae, carbonarius sp. n. Argentina, Ohaus D. ent. Zs. 1909 pp. 445-446.

Tribostethes germaini sp. n. Chile, OHAUS Stettiner ent. Ztg. 71 p. 14.

Dynastini.

Cryptodontinen, cin verbindendes Glied zwischen den Dynastiden und den melitophilen Lamellicorniem, Kolbe Ent. Rdsch. 26 pp. 81-83.

Aneurystypus pauxillus sp. n. Australia, A. collaris to Saulostomus, Black-Burn p. 81 Tr. R. Soc. S. Austral. 33.

Dynastes satanas sp. n. Bolivia, Moser D. ent. Zs. 1909 p. 112 & pl. iii. —D. tityus subsp. n. corniger Texas, STERNBERG Stettiner ent. Ztg. 71 p. 26.

Dyscinetus puncticauda sp. n. Kansas, Casey p. 282 Canad. Ent. 41.

Ligyrus subglaber sp. n. Arizona p. 383, bryanti synonym of laevicollis p. 384, SCHAEFFER Brooklyn Mus. Bull. 1.—L. californicus, spissipes, spp. n., United States, Casey p. 283 Canad. Ent. 41.

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Pseudoryctes monstrosus, Blackburn, p. 80 Tr. R. Soc. S. Austral. 33.

Pycnoschema cavifrons sp. n. L'Abyssinie, Lesne Mission en Ethiopie p. 111.

Cetoniini.

Collections recueillies par M. Maurice de Rothschild dans l'Afrique orientale anglaise, KÜNCKEL D'HERCULAIS Bul. muséum Paris 1909 pp. 70-72.

Amaurina vittipennis sp. n. Congo, Moser p. 323 Ann. Soc. ent. Belgique 53.

Anochilia moffartsi sp. n. Madagascar, Moser p. 314 T.c.

Anoplochilus albofasciatus sp. n. E. Africa, Moser p. 321 T.c.

Celidotella gen. n. near Heterocnemis, matthieseni sp. n. Persia, Reitter p. 83 Ent. Ztg. Wien 28.

Ceratorrhina manowensis distinct, ARROW p. 520 Ann. Nat. Hist. 3.

Cetonia aurata, Liebmann Ent. Bl. 5 p. 214.

Chalcopharis grandis sp. n. New Guinea, Moser p. 316 Ann. Soc. ent. Belgique 53.

Diceros gracilis sp. n. Burma, Janson p. 225 Entomologist 42.

Dicranorhina derbyana subsp. n. conradsi Ukerewe Victoria-Nyanza, Kolbe Ent. Rdsch. 26 p. 134.

Eccoptocnemis mashunus sp. n. Mashonaland, Arrow p. 520 Ann. Nat. Hist. 3.

Elassochiton pilifera sp. n. Abyssinia, Moser p. 323 Ann. Soc. ent. Belgique 53.

Glycyphana (Gametis) tigrina sp. n. Ruwenzori pl. vii f. 9 & p. 193, Arrow Tr. zool. Soc. 19.

Gnorimus varjabilis var. n. seminiger, Pic p. 145 Echange 25.

Goliathus giganteus subsp. n. orientalis, Moser D. ent. Zs. 1909.

Leucocelis cobaltinus, ichthyurus, p. 521, opacipennis p. 522, spp. n., Africa, Arrow Ann. Nat. Hist. 3.

Pachnoda trimaculata Kr. sp. n. Usambara, Moser p. 320 Ann. Soc. ent. Belgique 53.

Potosia cyanescens abb. n. cupriflua and imitatoria Alexandergebirge, Reitter p. 84 Ent. Ztg. Wien 28.—P. incerta boldyrevi subsp. n. Rossia merrid. Jacobson in Boldyrev Rev. russ. ent. 9 p. 128.—P. affinis abb. n. cyaneiventris and nonfriedi, Porsia, semiazurea Asia minor, cupreonigra Sardinia, Reitter Ent. Bl. 5 p. 182.—P. cuprea and aenea distinguished, Moser p. 320 Ann. Soc. ent. Belgique 53.

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Rhomborrhina unicolor formosana subsp. n., Moser p. 313 T.c.

Roplisa gen. n. near Trigonopeltastes, floridana sp. n. N. America, CASEY p. 284 Canad. Ent. 41.

Stephanocrates bennigseni sp. n. Congo, Kuhnt D. cnt. Zs. 1909 p. 651.

Taeniodera idolica Buma p. 225, indica Assam p. 226, spp. n., Janson Entomologist 42.

Thaumastopoeus borneensis Kina Balu, moluccanus Dammer isld., spp. n., Moser p. 313 Ann. Soc. ent. Belgique 53

Tmesorrhina runsorica sp. n. Ruwenzori, Arrow p. 192 Tr. zool. Soc. 19.

Valgus minutus sp. n. Louisiana, CASEY p. 283 Canad. Ent. 41. BUPRESTIDAE,

Buprestidae; borings in trees, N. America, Burke Yearb. U. S. Dep. Agric. 1909 pp. 399-415 figs. 25-36.

Studies in American Buprestidae, CASEY Proc. Acad. Washington 11 pp. 47-178.

Acmaceodera princeps New Zealand p. 591, abyssinica Abyssinia p. 592, fahrei Cape Good Hope p. 593, affabilis Damaraland p. 594, spp. n., Kerremans Mon. Bupr. 3.

Agrilomorpha p. 442, rothschildi sp. n. p. 443 fig. l, Théry Bull. Mus. Paris 1909.

Agrilus continuatus sp. n. Ruwenzori pl. vii f. 8 & p. 201, WATERHOUSE Tr. zool. Soc. 19.—A. knausi sp. n. Kansas, Schaeffer Brooklyn Mus. Bull. 1 p. 376.

Anataxis gen. n. type Halecia gentilis Horn p. 170, CASEY Proc. Acad. Washington 11.

Anthaxia salicis var. n. jacqueti, Pic p. 177 Echange 25.—A. bruchi sp. n. Argentina, Bruch D. ent. Zs. 1909 p. 748.

Asamia gen. n., insolita sp. n. Lake Rudolph, Théry p. 439 Bull. Mus. Paris 1909.

Brachys cephalica sp. n. Arizona, Schaeffer Brooklyn Mus. Bull. 1 p. 377.

Bubastoides gen. n. p. 438, argodi sp. n. Somaliland p. 439, KERREMANS Ann. Soc. ent. Belgique 53.

Buprestis maculipennis deficiens and fusiformis, inconstans scripta, subspp. n., p. 91, reducta, leporina, p. 92, contorta p. 94, spp. n., alternans conicicauda p. 93, laeviventris pugetana, subspp. n., diruptans p. 94, gravidula with subspp. torva and boulderensis p. 95, flavopicta p. 96, rubronotans, adonea, p. 97, histrio p. 98, spp. n., subornata punctiventris subsp. n. p. 99, violescens p. 99, acomana p. 100, morosa, fusca with subsp. sublivida, p. 101, caliginosa, nigricans, p. 102, lyrata, adducta, p. 103, confluenta tessellata p. 104, rufipes virens p. 105, subspp. n., elongata p. 105, fulgens, p. 106, spp. n., fasciata fortunata subsp. n. p. 107, bistrinotata, angusta, p. 108, callida, fastidiosa with subsp. mediocris, p. 109, crenata with subsp. seditiosa,

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Chalcogenia argodi sp. n. Somaliland, KERREMANS p. 439 Ann. Soc. ent. Belgique 53.

Chalcophora nigritula Transvaal p. 51 & pl. xxiii f. 5, damarana Damara land f. 6 & p. 53, spp. n., Kerremans T.c.—
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Chalcophorella = (Texiana Cas.), KERREMANS p. 60 Mon. Bupr. 4.

Chalcotaenia gratiosissima sp. n. New Guinea, KERREMANS p. 7 T.c.

Chrysobothris bispinosa sp. n. Arizona Schaeffer Brooklyn Mus. Bull. 1 р. 376.

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Cinyra (Spectralia subgen. n. p. 175), macilenta sp. n. Texas p. 176, Casey, Proc. Acad. Washington 11.

Corydon aeneus sp. n. Argentinia, Bruch D. ent. Zs. 1909 p. 749.

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Gyascutus snowi, cribriceps, pistorius, p. 62, acutangulus, pimalicus, amplus with aerata subsp. n., p. 63, egregius p. 64, fidelis, obesus, p. 65, with aeneoviridis subsp. n., compactus with solidus subsp. n., cylindrinus, p. 66, debilis, tenuis p. 67, spp. n., United States, Casey Proc. Acad. Washington 11.

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Lampetis confossipennis var. n. microstricta p. 440 vacheri sp. n. Madagascar p. 444, Théry Bull. Mus. Paris 1909.

Lampra nadezhdae sp. n. Persia sept., SEMENOV p. 314 Rev. russo Ent. 8.

Nanularia gen. n. near Cinyra p. 172, cupreofusca sp. n. California p. 173, Casey Proc. Acad. Washington 11.

Neojulodis rothschildi sp. n. Lake Rudolph, Théry Bull. Mus. Paris 1909 p. 438.

Paschyscelus oculatus sp. n. Arizona, Schaeffer Brooklyn Mus. Bull. 1 p. 377. Paracupta laevissima Solomon islds. p. 114 pl. xxiv f. 3, maindroni Gilolo p. 136 & f. 6, spp. n., Kerremans Mon. Bupr. 4.

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Polybothris bouvieri sp. n. Madagascar, Théry Bull. Mus. Paris 1909 p. 445.

Polycesta peringueyi sp. n. S. Africa, Kerremans p. 590 Mon. Bupr. 3.

Prasinalia subg, n. vide Hippomelas.

Psiloptera (Lampetia) separata sp. n. Somali land, Kerremans p. 436 Ann. Soc. ent. Belgique 53.

Ptosima istria varr. n. quadrimaculata, viturati, maculiceps, notaticollis, signata, and aegyptiaca, Pic p. 161 Echange 35.

—P. patagica Bruch to Tyndaris, KERREMANS p. 595 Mon. Bupr. 3.

Sicardia tristis sp. n. Madagascar, Тне́ку Bull. Mus. Paris 1909 p. 447.

Spectralia subg. n. vide Cinyra.

Sphenoptera macra sp. n. Transbaikalia, Jakolev Rev. russ. ent. 9 p. 1.—
S. fossa p. 271, luristana p. 272, rangnowi p. 273, Persia, cyaneoniger p. 275
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Spinthoptera gen. n. near Psiloptera p. 71, convexa p. 72, ocularis, parva, p. 73, arizonica p. 74, insularis p. 75, spp. n., U.S., CASEY Proc. Acad. Washington 11.

Stereosa subg. n. vide Buprestis.

Sternocera boucardi var. nov. rothschildi n. var., Thérey Bull. Mus. Paris 1909 p. 438.

· Stictocera gen. n. near Gyascutus, pollens, p. 69, laticornis p. 70, spp. n., U.S., Casey Proc. Acad. Washington 11.

Taphrocerus argentinus sp. n. Argentinia, Bruch D. ent. Zs. 1909 p. 750.

Texania gen. n. near Chalcophora p. 84, serriger p. 85, bisinuata p. 86, spp. n., U.S., Casey Proc. Acad. Washington 11.

Trachys mathiauxi sp. n. Madagascar, Тнёкч Bull. Mus. Paris 1909 p. 446.

Tylauchenia vittipennis sp. n. Argentinia, Bruch D. ent. Zs. 1909 p. 747.

EUONEMIDAE.

Eucnemidae of the eastern states, with bibliography, VAN HORN Washington Proc. Ent. Soc. 11 pp. 54-62 pl. iv figs. 3-4.

ELATERIDAE.

Elateridenlarven als Fleischfresser, Pečírka Čas. České Spol. Entomolog. 1908 p. 94-96.

Adelocera squamea sp. n. et var. n. obscura Afrique orientale, Szombathy Ann. Mus. Hung. 7 p. 118.

Alaus trifasciatus sp. n. Ruwenzori pl. vi f. 5 & p. 205, Gahan Tr. zool. Soc. 19.—A. boreli, infumatus, pini, putridus, Szombathy Ann. Mus. Hung. 7 p. 120. —A. patricius Florida, Cuba, Schaeffer J. Ent. Soc. New. York 17 p. 149.

Aphanobius pectinicornis sp. n. Madagascar, Schwarz Soc. entomol. 24 p. 131.

Athous (Stenagostus) zurcheri sp. n. Kleinasien, Reitter p. 57 Ent. Ztg. Wien 28.—A. puncticollis var. n. ravouxi, Pic p. 105 Echange 25.—A. niger Merkwürdige Fühlerbildung, Biehl Intern. ent. Zs. 2 p. 249.

Campsosternus csikii Shanghai, orientalis Assam, spp. n., Szombathy Ann. Mus. Hung. 7 pp. 120-121.

Campylopsephus scitulus San Thomé, limbatus Kamerun p. 117, confinus Congo p. 118, spp. n., Schwarz Soc. entomol. 24.

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Eschatroxus holosericeus, anticus var. n. discrepans Nouvelle Guinéa, Szombathy Ann. Mus. Hung. 7 pp. 122-123.

Lacon cinerascens, crassus, gracilentus, gracilis, gragetensis sp. n. Nouvelle Guinée, Szombathy p. 119 T.c.

Ludius melancholicus var. n. cenisius, Pio p. 105 Echange 25.

Meristus cristatus California, Szom-BATHY Ann. Mus. Hung. 7 p. 119.

Monocrepidius biroi sp. n., pallipes, Nouvelle Guinée, Szombathy p. 123 T.c.—M. scissus Georgia p. 378, texanus Texas p. 379, spp. n., Schaeffer Brooklyn Mus. Bull. 1.—M. similis nom. n. texanus Schaef., Schaeffer Ent. News 20 p. 436.

Phedomenus maculatus sp. n. Madagascar, Schwarz Soc. entomol. 24 p. 122.

Prosternon holosericeus var. n. semirufus, Pic p. 105 Echange 25.

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Rhinopsephus nigrifrons sp. n. Central Afrika, Schwarz p. 118 T.c.

Semiotus spp., notes faunistiques, Szombathy Ann. Mus. Hung. 7 pp. 121-122.

CEBRIONIDAE, RHIPIDOCERIDAE.

Cebrio; larval food, Lesne Paris Bul. soc. ent. 1908 p. 302.

Sandalus latipennis, sp. n., Pio p. 133 Echange 25.

DASCILLIDAE.

Dascillocyphon gen. n. p. 10, major, minor, spp. n., Sumatra, pp. 11-12, EVERTS Tijdschr. Ent. 52.

Dascillus cervinus larva, CARPENTER p. 589 & pl. lv Econ. Proc. Dublin Soc. 1.

Platydascillus gen. n. p. 6 sumaranus sp. n. p. 7, Sumatra, EVERTS Tijdschr. Ent. 52.

MALACODERMIDAE.

Sur l'organisation des Coléoptères du groupe des Lampyrides, OLIVIER Paris C. R. ass. franc. avanc. sci. 37 pp. 573-580.

Revision of Australian and Tasmanian Malacodermidae, Lea pp. 45-251 & pls. ii-vi Tr. ent. Soc. London 1909.

Aethra decorata var. n. circumcincta, OLIVIER p. 223 Bull. Soc. ent. France 1909.—A. dejeani Brasilia, conserta Peru, spp. n., OLIVIER D. ent. Zs. 1909 p. 671.

Agasma Newm. referred to Oedemeridae, LEA p. 250 Tr. ent. Soc. London 1909.

Alecton discoidalis var. n. improvitus, OLIVIER p. 221 Bull. Soc. ent. Fr. 1909.

Allotarsus monstrosipes sp. n., Pic p. 179 Echange 25.

Asilis pilicornis p. 401, sinuellus, granipennis, p. 402, interstitialis p. 403, apicalis p. 404, spp. n., New Zealand, BROUN Ann. Nat. Hist. 3.

Attalus analis, als Blutsauger, Wich-Mann Ent. Bl. 5 p. 139.

Atyphella brevis sp. n. Queensland, LEA p. 111 Tr. ent. Soc. London 1909.

Balanophorus pictus p. 184, victoriensis p. 185, ater p. 186, spp. n., Australia, LEA T.c.

Callotroglops alfierii sp. n., Pic p. 185 Echange 25.

Calochromus mastersi p. 104, dentipes, minor, p. 105, spp. n. Australia, LEA Tr. ent. Soc. London 1909. Calyptocephalus melanopterus sp. n. Cayenne, stipulicornis var. n. diffusus, OLIVIER p. 222 Bull. Soc. ent. France 1909.—C. infaustus sp. n. Peru, OLIVIER D. ent. Zs. 1909 p. 669.

Cantharis (Telephorus) diverses, Pic Echange 25 p. 162-164.—C. var hummleri Pie, Fiori Riv. Colcotter. ital. 7 p. 129.—C. glazunovi Sorafschan p. 325, biliturata Buchara or. p. 326, spp. n., Barovsky Rev. russ. ent. 9.—C. (Telephorus) trimaculatus sp. n., Pic Naturaliste Paris 31 p. 19.—C. (Telephorus) semiopaca sp. n. Indes, Pic Paris Bul. soc. ent. 1909 p. 37.—C. livida var. n. inscapularis, parnassica var. n. kalavrytana, C. (Metacantharis) semidiscoidalis sp. n., Pic p. 169 Echange 25.—C. (Telephorus) kashmirensis sp. n., Pic p. 108 T.c.

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Chauliognathus obscurus p. 379, vittatus, p. 380, spp. n., Arizona, Schaeffer Brooklyn Mus. Bull. 1.—C. bruchi sp. n. Minas Geraes, Bourgeois p. 283 Rev. Mus. La Plata 15.

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Dasytes lombardus sp. n. Italy, Fiori Riv. Coleotter. ital. 7 p. 26.—D. abundans, bourgeoisi, p. 244, australiae p. 245, granulipennis, sobrinus, p. 246, evanidus, wiburdi. p. 247, corticarioides, amplicollis, p. 248, spp. n., Australia and Tasmania, Lea Tr. ent. Soc. London 1909.—D. aurisetifer p. 404, anacharis p. 405, spp. n., New Zealand, Broun Ann. Nat. Hist. 3.

Diaphanes nimbosus sp. n. Angola, OLIVIER p. 396 Ann. Soc. ent. Belgique 53.—D. exsanguis sp. n. China, OLIVIER Bul. Muséum Paris 1909 p. 248.

Discodon telephoroides, abdominale, spp. n. Arizona, Schaeffer Brooklyn Mus. Bull., 1 p. 380.

Dodacles emissus sp. n. Cordoba, OLIVIER p. 294 Rev. Mus. La Plata 15.—D. obscuricollis sp. n. Brasilia, OLIVIER D. ent. Zs. 1909 p. 670.

Drilus oder Cochlectonus? SCHMITZ Ent. Rdsch. 23 p. 26.—D. concolor, metamorphosis, Rosenberg Ent. Medd. 3 1909 pp. 227-249.—D. flavescens, Biologie, SCHMITZ Ber. Ned. Ent. Ver. pp. 301-305.

Dromanthus lateralis sp. n. Brazil, Pic p. 37 Rev. Mus. La Plata 16.

Dumbrellia gen. n. for Calochromus brevicornis and pilosicornis Lea, Lea p. 99 Tr. ent. Soc. London 1909.

Ebaeus fischeri sp. n. Turkestan, FLEISCHER p. 244 Ent. Ztg. Wien 28.

Hapalochrous simplicipes sp. n. Congo, Pic p. 193 Ann. Soc. ent. Belgique 53.

Haplocnemus kubanensis sp. n., p. 99 Echange Pic 25.—H. beauprei sp. n., Pic T.c. p. 105.

Helcogaster obliquiceps, niger, p. 222, ater, incisicollis, p. 223, basirufus, punctipennis, p. 224, tuberculifrons p. 225, rhyticephalus p. 226, sulciceps, simpliciceps, p. 227, bilobus p. 228, maculiceps p. 229, foveicornis, insularis, p. 230, t-tuberculatus p. 232, tropicus, nigriceps, p. 233, decipiens p. 234, strigiceps, helmsi, p. 235, pulchripes p. 236, spinicollis p. 237, punctilobus, bacchanalis, p. 238, spp. n., Australia and Tasmania, Lea Tr. ent. Soc. London 1909.

Heteromastix distortus, macleayi, p. 137, flavifrons p. 138, frater, pallipes, p. 139, laticollis, decipiens, p. 140, tenuis, niger, p. 141, flavipennis p. 142, discoflavus, occidentalis, p. 143, perabundans p. 144, nigripes, simplex p. 145, latus p. 146, geniculatus, imitator, p. 147, amabilis p. 148, inflatus p. 149, dolichocephalus p. 150, spp. n. Australia and Tasmania, Lea T.c.

Hypattalus mucronatus p. 174, flaviventris, dentipes, p. 175, calcaratus p. 176, distortipes, carteri, p. 177, exilis, sordidus, p. 178, montanus p. 179, spp. n., Australia and Tasmania, Lea Tr. ent. Soc. London 1909.

Idgia maindroni Travancore, longissima Sumatra, spp. n., Pic p. 245 Bull. Soc. ent. France 1909.—I. circumdata sp. n. Pic p. 160 Exchange 25

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Laius alleni, armicollis, p. 161, sculptus p. 162, orthodoxus p. 163, tarsalis p. 165, flavopictus p. 166, cavicornis p. 167, spp. n. Australia, LEA Tr. ent. Soc. London 1909.

Lamprocera nigrans Brasilia, spreta Paraguay spp. n., OLIVIER D. ent. Zs. 1909 p. 669.

Lamprorrhiza splendidula, Lebensgeschichte u. Leuchtvermögen, Höllrich Innsbruck Ber. Natw. Med. Ver. 31 pp. 167-230.

Lampyris splendidula, Beleuchtung, GORKA Termt. Közl. 41 p. 647.— L. noctiluca and splendidula, Leuchten, Wettlandr Wien Verh. Zool. Bot. Ges. 59 pp. 94-103.

Lucernuta grata sp. n. Siam, OLIVIER p. 394 Ann. Soc. ent. Belgique 53.

Lucidota consors, supplex, p. 35, tristicolor, dissimilis, p. 36, spp. n. S. Auterica, Olivier Paris Bul. Soc. ent. 1909.—L. pennata var. n. immaculata p. 223, OLIVIER T.c.—L. ornata p. 110, propinqua p. 111, spp. n., OLIVIER Rev. Sci. Bourbon, 1909.—L. probata p. 394, immemor, Peru, parilis, p. 395, serricornis p. 396, Ecuador, spp. n., OLIVIER Ann. Soc. ent. Belgique 53.

Luciola praetermissa sp. n. Togo, OLIVIER Paris Bul. soc. ent. 1909 p. 37. —L. ficta sp. n. China, OLIVIER Bul. Muséum Paris 1909 p. 249.—L. kervillei sp. n. Lebanon, OLIVIER p. 398 Ann. Soc. ent. Belgique 53.—L. platygaster sp. n. Queensland, Lea p. 110 Tr. ent. Soc. London 1909.—L. flavicollis, Armitage p. 28 Vict. Nat. 25.

Lycus modestus pl. vi figs. 2 & 3, vittatus fig. 1 p. 202, L. (Lycostomus) runsoriensis f. 4 & p. 203, spp. n. Ruwenzori, Gahan Tr. zool. Soc. 19.—L. kerandeli sp. n. Congo français, BOURGEOIS Bul. Muséum Paris 1909 p. 164 fig.

Malachiini; Ueber einige europäische Arten, Hubenthal D. ent. Zs. 1909 pp. 409-413.

Malachius insignicornis p. 129, kruperi p. 137, spp. n., Pic Echango 25.

Malthinus aegyptiacus sp. n. Cairo, FERRANTE p. 26 Bull. Soc. ent. Egypte, 1.—M. (Progeneutes) sahlbergi sp. n. Pic p. 137 Echange 25.—M. calaber sp. n., Pic p. 169 T.c.

Malthodes numidicus nom. n. p. 97 pro algiricus, Pic, simpliciventris, beauprei, longistylus, p. 97, monstrosus, nigrithorax, p. 98, spp. n., Pic Echange 25.—M. cochlearius, M. (Podistrina) escorialensis, spp. n., Pic p. 170 T.c.—M. demaisoni sp. n., Pic p. 177 T.c.

Megalophthalmus gorhami sp. n. Panama, Olivier p. 223 Bull. Soc. ent. France 1909.—M. jocosus sp. n. Peru, Olivier D. ent. Zs. 1909 p. 672.

Melyris monticola sp. n. Ruwenzori, pl. vi f. 6 & p. 204, Gahan Tr. zool. Soc. 19.

Metriorrhynchus apterus pl. ii f. 1, uniseriatus, p. 72, cancellatus p. 73, simplicicornis, ramosus, p. 74, brisbanensis p. 75, basiflavus, constricticollis, p. 76, obscuripennis p. 77, triareolatus, nigrovittatus, p. 78, moerens p. 79, disconiger p. 80, ordinarius, baţesi, p. 81, simsoni p. 82, gracilis p. 83, costicollis, diminutivus, p. 84, atricornis, militaris, p. 85, varipennis p. 86, heterodozus p. 87, rufirostris p. 88, opacus, tibialis, p. 89, Australia and Tasmania, spp. n., Lea Tr. ent. Soc. London 1909.

Neocarphurus coatesi p. 212, sobrinus p. 213, spp. n. Australia, Lea T.c.

Phaenolis riparius sp. n. Amazonas, OLIVIER D. ent. Zs. 1909 p. 699.

Phosphaenus hemipterus, Planet Naturaliste 31 pp. 186-188 198-200 fig.—Männlichen Geschlechtsapparat, Weber D. ent. Zs. 1909 pp. 784-788.

Photinus flaveolus p. 111, perbrevis, ridorius, p. 112, spp. n., latreillei nom. n. = scintillans Latr. nec Say, Olivier Rev. Sci. Bourbon 1909.— P. bruchi sp. n. Tucuman, Bruch p. 50 Rev. Mus. La Plata 16.—P. bruchi sp. n. Tucuman, Olivier p. 396 Ann. Soc. ent. Belgique 53.—P. pyralis herrührende fluoreszierende Substanz, Coblentz Physik. Zs. 10 pp. 955-956.

Photuris verticalis p. 114, uncta p. 115, spp. n., Olivier Rev. Sci. Bourbon 1909.—P. unicolor sp. n. Peru, Olivier p. 397 Ann. Soc. ent. Belgique 53.

†Podabrus wheeleri sp. n. Colorado Tertiary, Wickham Amer. J. Sci. 28 p. 128. Psilocladus suppletus, blanchardi, spp. n. Amazonas, Olivier D. ent. Zs. 1909 p. 670.

Pteroptyx bearni sp. n., OLIVIER p. 139 Echange 25. -P. validum sp. n. Siam, OLIVIER p. 397 Ann. Soc. ent. Belgique 53.

Pyrogaster margipallens sp. n., OLIVIER p. 114 Rev. Sci. Bourbon 1909.

Rhagonycha jakovlevi Irkutsk p. 293 sp. n., ab. n. smirnoni p. 294, Barovskij Rev. russ. ent. 8.—R. morio var. n. doctoris, lederi, transbaikalika, spp. n., Pro p. 177 Echange 25.—R. hesperica var. n. georgi, aetolica var. n. moreana, nigripes var. n. saturipennis, Pro p. 185 T.c.

Selenurus v-flavus Queensland p. 127, appendiculatus Tasmania p. 128, spp. n., LEA Tr. ent. Soc. London 1909.

Silidius notatithorax sp. n. Congo, Pio p. 96 Ann. Soc. ent. Belgique 53.—S. binotatus sp. n., Pio p. 160 Echange 25.—S. rollei, diversicornis, spp. n., Pio p. 167 T.c.

Silis abyssinica sp. n., Pic p. 160 Echange 25.—S. le moulti p. 173, subnotata, robusticollis, p. 174, longispina, notaticeps, p. 176, spp. n., Pic T.c.—S. brasiliensis p. 179, haenschi, humeralis, p. 180, spp. n., Pic T.c.— S. latissima p. 6, vicina p. 7, spp. n., S. America, sulcata var. n. brevimaculata p. 7, Pic Ann. Soc. ent. Belgique 53.

Telephorus alternatus p. 120, kershawi, inconstans, p. 121, nigroterminalis p. 122, immaturus p. 123, macrops, curvipes, p. 124, spp. n., Australia, Lea Ti. ent. Soc. London 1909.

Tenaspis acuta Brasilia, rufibasis Guyana, spp. n., OLIVIER D. ent. Zs. 1909 p. 672-673.

Trichalus bifurcatus, semiatratus, p. 96, flabellicornis p. 97, griffithi p. 98, apiciflavus p. 99, spp. n. Australia and Tasmania, LEA Tr. ent. Soc. London 1909.

Trichoceble convexa, schatzmayri, spp. n., Pic p. 113 Echange 25.

Troglops cultricornis sp. n., Algeria, ABEILLE p. 179 Bul. Soc. ent. France 1909.

Vesta enervis sp. n. China, OLIVIER Bul. Muséum Paris 1909 p. 248.—V. rustica, media, spp. n. Equador, OLIVIER D. ent. Zs. 1909 p. 672.—V. colonica sp. n. Tonkin, OLIVIER p. 394 Ann. Soc. ent. Belgique 53.

Zygia rubrolimbata sp. n. Pic p. 142 Echange 25.

CLERIDAE.

Notes sur la nomenclature des Clérides, Lesne Paris Bul. soc. ent. 1909 p. 206.

Clerus jouteli sp. n. Georgia, LENG J. Ent. Soc. New York 17 p. 103.— C. semimetallicus vide Trogositidae.

Hydnocera pusilla, nigrescens, tristis, spp. n., U.S., Schaeffer p. 381 Brooklyn Mus. Bull. 1.

Metarina gen. n. near Parmius p. 407, ornata sp. n. New Zealand p. 408, Broun Ann. Nat. Hist. 3.

Phymatophaea lugubris p. 405, apicale p. 406, spp. n., New Zealand, Broun T.c.

Trichodes penicillatus sp. n. O.-Afrika, Schenkling D. ent. Zs. 1909 p. 94.

LYMEXYLONIDAE.

Atractocerus, note on species and sexes, Boungeois pp. 401-403 Ann. Soc. ent. Belgique 53.

PTINIDAE.

Dorcatoma bibliophagum sp. n. Brazil, DE MAGALHÃES p. 11 Rev. Sci. Paris 9.

†Ernobius? electrinus sp. n. baltischen Bernstein, QUIEL Berliner ent. Zs. 54 p. 49.

Eupactus brevispinus sp. n. Guadeloupe, Pic Paris Ann. soc. ent. 78 p. 170.

Hadrobregmus incisicollis sp. n. Argentina, Pic p. 38 Rev. Mus. La Plata 16.

Hedobia latithorax sp. n., Pic p. 108 Echange 25.—H. tricostata var. n. obscuricolor, Pic p. 178 T.c.—H. pubescens, Nährpflanze, Wachtl Zentr-Bl. Forstwes. 35 p. 58.

Leptobia guadalupensis sp. n. var. n. subnitida, Pic Paris Ann. soc. ent. 78 p. 169.

Microptinus longicornis sp. n., Pic Bul. Muséum Paris 1909 p. 168.

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Mesothes granulatus sp. n. Kleinasien, REITTER Ent. Ztg. Wien 28 p. 303.

Paussoptinus brevipennis sp. n. Ausralia, Pro Fauna Südwest Australiens Lfg. 13 p. 213.

Pseudodorcatoma ornata var. n. semirufa, sericea, dufaui, spp. n., dufaui var. n. minuta, Guadeloupe, Pic Paris Ann. soc. ent. 78 p. 169.

Ptilinus; Lyctus retractus Walk. referred to this; Arrow p. 194 Ann. Nat. Hist. 4.

Ptinus posticatus sp. n., Pic Bul. Muséum Paris 1909 p. 169.

Scymnuseutheca gen. n. p. 170 voisin de Pseudodorcatoma, apicalis sp. n. p. 171 Guadeloupe, Pic Paris Ann. soc. ent. 78.

Sphaericus madecassus sp. n., Pic p. 108 Echange 25.

Stagetus (Theca) pilula var. n. obscurior, Pic Autun Bul. soc. hist. nat. 21 p. 118.—S. (Theca) breviuscula var. n. luteopubens, Pic p. 108 & p. 147 Echange 25.

Xyletinus indicus sp. n., Pic, p. 146 T.c.

BOSTRICHIDAE, LYCTIDAE.

Notes sur les Coléoptères térédiles, LESNE Bul. Muséum Paris 1909 (347-351).

Bostrichus fasciculatus sp. n. Lower California, FALL p. 162 Canad. Ent. 41.

Lyctus canaliculatus said to pierce lead, LITTLER p. 37 Entomologist 42.

Stephanopachys substriatus nouveau pour la faune française, LESNE Paris Bul. soc. ent. 1909 pp. 102-103.

TENEBRIONIDAE.

A monographic revision of the Coleoptera belonging to the tribe Eleodiini inhabiting the United States, Lower California, and adjacent islands, BLAISDELL Bull. U. S. Nation. Mus. 63 pp. i-xi & 1-524 pls. i-xiii.

Adelium Joveatum Tasmania, cuprescens Bardoc W. A., goudiei Sea Lake, sloaneii Blayney, spp. n., Carter Proc. Linn. Soc. N.S.W. 34 pp. 147-151.—A. hudsoni sp. n. New Zealand, Broun p. 411 Ann. Nat. Hist. 3.

d 25-2

Aethalides costipennis Cootamundra, marginicollis Birchip, decemcostata Gram pians, spp. n., Carter Proc, Linn. Soc, N.S.W. 34 pp. 135-138.

Agasthenes goudiei Soa Like, frenchi Murchison, stepheni Forbes, spp. n., Carter pp. 129-133 T.c.

Apasis beplegenoides sp. n., howitti Pasc. var. n. longicollis, Victorian Alps Carter pp. 145-146 T.c.

Asida; italiane, spp. n., Leoni Riv. Coleotter. ital. 7 pp. 142-189 & 211-225.

Blaptoprosodes subgen. n. ex gen. Prosodes p. 154, Reitter Wich. ent. Z. 28.

Brycopia cheesemani N.S.W., femorata Victoria, Carter Proc. Linn. Soc. N.S.W. 34 pp. 154-155.

Byallius ovensensis Bright, mastersii Condobolin, spp. n., Carter p. 139 T.c.

Cardiothorax mimus Tambourine Mountain, carinatus Mount Garnet, spp. n., Oarter pp. 141-143 T.c.

Cilibe lateralis p. 408, smithiana p. 409, spp. n., New Zealand, Broun Ann. Nat. Hist. 3.—C. saragoides sp. n. Pitt's island, Broun p. 148 Tr. N. Zeald, Inst. 41.

Dichillus tenebrosus, bei Monomorium gracillimum und Pheidole pallidula, Transkaspien, Karawajew Rev. russ. ont. St. Peterburg 9 p. 229.

Dila leptoscelis sp. n. Porsia, REITTER Ent. Bl. 5 p. 239.

Dilopersina subgen. n. ex gen. Prosodes p. 131, REITTER Ent. Ztg. Wien 28.

Diprosodes subgen. n. ex gen. Prosodes p. 125, REITTER T.c.

Eleodes (Melaneleodes) ampla Western United States p. 53 pl. 10 f. 12, knausii New Mexico p. 67 pl. 4 f. 24, E. (Litheleodes) letcheri Nevada p. 133 pl. 3 ff. 5 & 6, E. (E.) subpinguis Texas p. 247 pl. 5 f. 18, E. (Blapylis) tibialis Lower California p. 313 pl. 4 f. 16, snowii New Mexico and Colorado p. 317 pl. 4 f. 12, blanchardii p. 339 pl. 6 f. 1, fuchsii California p. 343 pl. 12 f. 9, neotomae p. 347 pl. 4 f. 2, hornii pp. 350-354 pl. 5 f. 15, hoppingii p. 368 pl. 6 f. 2 California, caseyi Novada and California p. 388

pl. 6 f. 3, E. (Metablapylis) dissimilis Arizona p. 398 pl. 5 f. 12, schwarzii Washington p. 406 pl. 5 f. 10, spp. n., BLAISDELL Bull. U. S. Nation. Mus. 63. —E. opaca life history notes, injury to grain pp. 332–336 pls. ix & x, SWENK J. Econ. Ent. 2.

Eleodimorpha gen. n. Eleodiini p. 477, bolcan sp. n. California p. 479 pl. 6 ff. 11 & 12, Blaisdell Bull. U. S. Nation. Mus. 63.

Embaphion glabrum p. 457 pl. 5 f. 14, contractum p. 460 pl. 5 f. 20, New Mexico, spp. n., Blaisdell T.c.

Euryprosodes subgen. n. ex gen. Prosodes, Reitter Ent. Ztg. Wien 28 p. 122.

Globasida mauritana sp. n. Metilla, Escalera p. 135 Bol. Soc. espan. 9.

Gracilasida ariasi sp. n. Metilla, Escalera T.c.

Heteropromus subgen. n. Eleodes p. 179, BLAISDELL Bull. U. S. Nation. Mus. 63.

Hypoprosodes subgen. n. ex gen. Prosodes, Reitter p. 164 Ent. Ztg. Wien 28.

Leptodes zubkovi Transcaspian p. 300, solieri (= boisduvali Sol. nec. Zoubk.) p. 302, spp. n., Semenov Rev. russe Ent. 8.

Leptodopsis suworowi Reitt. not distinct from tianshanici Sem., distribution, Semenow pp. 27 & 28 Op. eit. 9.

Lioprosodes subgen. n. ex gen. Prosodes p. 160, REITTER Ent. Ztg. Wien 28.

Litheleodes subgen. n. Eleodes p. 114 BLAISDELL Bull. U. S. Nation. Mus. 63.

Lyprosodes subgen. n. ex gen. Prosodes p. 128, Reitter Ent. Ztg. Wien 28.

Megaprosodes subgen. n. ex gen. Prosodes p. 134, Reitter T.c.

Meladiesia gen. n. Tenebrionidae, miritarsis sp. n. Transkaspien, REITTER p. 309 T.c.

Melaneleodes subgen. n. Eleodes p. 36, Blaisdell Bull. U. S. Nation. Mus. 63.

† Meracantha lacustris sp. n. Colorado Tertiary, Wickham Amer. J. Sci. 28 p. 129.

Meropersina subgen. n. ex gen. Prosodes p. 130, REITTER Ent. Ztg. Wien 28.

Metablapylis subgen. n. Eleodes p. 391, distribution p. 392, Blaisdell. Bull. U.S. Nation. Mus. 63.

Oliprosodes subgen. ex gen. n. Prosodes p. 138, REITTER Ent. Ztg. Wien 28.

Ospidus paropsoides sp. n. N. Queensland, CARTER Proc. Linn. Soc. 34 p. 128.

Paraprosodes subgen. n. cx gen. Prosodes p. 144, REITTER Ent. Ztg. Wien 28.

Phaleria ornata varr., HEYDEN D. ent. Zs. 1909 p. 486.

Pimeliocnera gen. n. Tenebrionidae, gebieni sp. n. Buchara, REITTER Ent. Ztg. Wien 28 p. 310.

Platyprosodes subgen. n. ex gen. Prosodes p. 162, REITTER T.c.

Prosodella subgen. n. ex gen. Prosodes, REITTER p. 153 T.c.

Revision Prosodes; der Arten, many subgenn. n.; P. (Aulonoscelis) gnaptorina Turkestan p. (Diprosodes) biformiopaca 123, Buchara p. 127, P. (Lyprosodes) pseudaciculata Ostbuchara p. 129, P. (Prosodoscelis) prosodes) jardanus Buchara p. 135, P. (Paraprosodes) singularis Buchara p. 145, P. s. str. quadriimpressa Transkaspien p. 149, gebieni Samarkand p. 152, P. (Blaptoprosodes) brevicauda Taschkend p. 156, P. (Pseudoprosodes) pecirkana Turkestan p. 157, P. (Euryprosodes) trifossa sp. n. Turkestan p. 165, P. (Platyprosodes) hetschkoi Turkestan p. 163, spp. n., REITTER T.c.

Prosonestes subgen. n. ex gen. Prosodes, REITTER p. 123 T.c.

Prosodila subgen. n. ex gen. Prosodes, REITTER p. 161 T.c.

Prosodina subgen. n. ex gen. Prosodes, REITTER p. 124 T.c.

Prosodopria subgen. n. ex gen. Prosodes, REITTER p. 129 T.c.

Prosodoscelis subgen. n. ex gen. Prosodes, REITTER p. 129 T.c.

Prosodura subgen. n. ex gen. Prosodes, REITTER p. 133 T.c.

Psammodes reichei Metamorphosis and larval form, text figs, MALLY Cape Town Agric. J. 1909.

Pseudeleodes subgen. n. p. 146, BLAISDELL Bull. U. S. Nation. Mus. 63.

Pseudhelops quadricollis the Snares. posticalis, p. 107, interruptus p. 108, Campbell Island, spp. n., Broun BROUN Subantarct. Isl. New Zealand 1.

Pseudoprosodes subgen. n. ex gen. Prosodes p. 156, REITTER Ent. Ztg. Wien 28.

Seirotrana bimetallica sp. n. N.S.W. CARTER Proc. Linn. Soc. N.S.W. 34 p. 153.

Solskyja concavidorsis sp. n. Buchara. REITTER Ent. Bl. 5 p. 206.

Statira colorata sp. n. Lower California, FALL p. 165 Canad. Ent. 41.

Steneleodes subgen. n. Eleodes p. 409, BLAISDELL Bull. U. S. Nation. Mus. 63.

Styrus latior sp. n. N. S. Wales, CARTER Proc. Linn. Soc. N.S.W. 34 p. 127.

Tagona lata Transcaspia sp. n., Sumakov Rev. russ. ent. 8 pp. 245-246.

Tricheleodes subgen. BLAISDELL Bull. U. S. Nation. Mus. 63.

Trigonoscelis pecirkana sp. n. Buchara, REITTER Ent. Ztg. Wien 28 p. 308.

Trogloderus tuberculatus sp. n. California p. 490 pl. vi ff. 14 15, BLAISDELL Bull. U. S. Nation. Mus. 63.

Tryptera sparsicollis sp. n. Buchara, REITTER Ent. Ztg. Wien 28 p. 311.

Uroprosodes subgen. n. ex gen. Prosodes, REITTER p. 138 T.c.

Zophobas morio Florida, GREENE Ent. News 20 p. 434.

CISTELIDAE = ALLECULIDAE.

Allecula confusa für tenuis Fairm .. fauveli für rugicollis Fauv., indica für brachydera Fairm., kanarensis für arcuatipes Fairm., macleayi für flavicornis Macl., neglecta für tenuis Fairm., nomm. n., Borchmann D. ent. Zs. 1909 p. 714.—A. cinctipennis sp. n., cardoni nom. n. pro A. tenuis Fairm praeocc., Pic Naturaliste Paris 31 p. 19.— A. semeti sp. n. Pic p. 162 Echange 25.

Asticostena pallidicolor sp. n. Pic p. 133 T.c.

Bearnicistela gen. n. p. 139 voisin de Asticostena, lutcicolor sp. n. p. 140, Pic T.c.

Cistela ou Pseudocistela borchmanni nom. n. pro subaenescens Pic 1908, Pic T.c.—C. limbatipennis sp. n., Pic p. 134 T.c.

Cistelomorpha obscuriceps sp. n., Pic Naturaliste Paris 31 p. 17.—C. bisbinotata sp. n., Pic p. 134 Echange 25.

Homotrysis rufulicornis nom. n. für ruficornis Blackb., Boschmann D. ent. Zs. 1909 p. 714.

Hymenalia oxyopa sp. n., Pic p. 147 Echange 25.

Isomira viridimetallicus sp. n., Pic p. 142 T.c.

Microcistela rosinae Pic Abbildung, REITTER p. 102 Ent. Ztg Wien 28.

Mycetochara lecontei nom. n. für gracilis Lec., Borchmann D. ent. Zs. 1909 p. 714.

Neoatractus nom. n. für Atractus Lac., Borchmann p. 713 T.c.

Prionychus striatipennis sp. n., Pro p. 114 Echange 25.

Neocistela nom. n. für Pseudocistela Blackb., Borchmann D. ent. Zs. 1909 p. 713.

Simarus nom. n. für Ismarus Haag, Borchmann p. 713 T.c.

OTHNIIDAE.

Polypria zigzaga sp. n., Pic p. 148 Echange 25.

MELANDRYIDAE.

Doxozilora gen. n., punctata sp. n. New Zealand, Brown p. 412 Ann. Nat. Hist. 3.

Hypulus bodemeyeri sp. n. Klein-Asien, Reitter Ent. Bl. 5 p. 50.

Osphya bipunctata var. n. testaceithorax, Pic p. 121 Echange 25.

LAGRIIDAE.

Adynata ruficollis sp. n. Kongo, BORCHMANN D. ent. Zs. 1909 p. 84.—
A. ruficollis sp. n. Congo, BORCHMANN Firenze Boll. Soc. Entom. 40 pp. 208–218.

Eutrapela variabilis sp. n., Borch-MANN Kilimandjaro-Meru Exp. 7 14 p. 295.—E. assimilis sp. n. Natal, Borchmann D. ent. Zs. 1909 p. 85.

Isocera nom. n. für Isotoma Blanch., BORCHMANN D. ent. Zs. 1909 p. 713.

Lagria rugipennis sp. n. Ruwenzori pl. vi f. 12 & p. 206, GAHAN Tr. zool. Soc. 19.—L. antennalis p. 293, sjostedti p. 294, spp. n., Borchmann Kilimandjaro - Meru Exp. 7 14.—L. gestroi Fernando-Poo, etc., flavipes Kamerun, plagiventris Fernando-Poo, spp. n., BORCHMANM Firenze Boll. Soc. Entom. 40 pp. 208-218. L. corpulenta Kamerun p. 69, auricollis p. 70, bennigseni, plicatula, Uganda, p. 72, rothschildi p. 73, navicularis p. 74, aeneiceps p. 75, nigra O. Afrika p. 77, graueri Uganda p. 78, erythrocephala Usambara p. 79, schenklingi Tiansvaal p. 80, spp. n., Borchmann D. ent. Zs. 1909.—L. amplicollis nom. n. für laticollis Kolbe, anntennata für distincticornis Heyd., costatula für subcostata Fairm., partita für rusiceps Kolbe, BORCHMAN D. ent. Zs, 1909 p. 714.

Lagriostira fulva sp. n. Uganda, BORCHMANN D. ent. Zs. 1909 p. 82.

Nemostira tenella Uganda p. 86, rufa Kamerun p. 87, spp. n., Borchmann D. ent. Zs. 1909.—N. dichrocera sp. n. Kamerun, Borchmann Firenze Boll. Soc. Entom. 40 pp. 208-218.—N. fairmairei nom. n. für cribricollis Fairm., Borchmann D. ent. Zs. 1909 p. 714.

Porrolagria denticollis Uganda p. 82, gracilis Kamerun p. 83, spp. n., Borchmann T.c.—P. subaenea sp. n. Fernando Po, Borchmann Firenze Boll. Soc. Entom. 40 pp. 208-218.

Xenostethus gloriosus sp. n. Usambara, Borchmann D. ent. Zs. 1909 p. 88.

ANTHIOIDAE, XYLOPHILIDAE.

Anthichomorphus rufithorax sp. n., Pic Bul. Mus. Paris 1909 p. 251.

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Rev. russ. ent. St. Peterburg 9 p. 229.
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Chretecterus egenus sp. n. Barron Falls, Lea Proc. Linn. Soc. N.S. Wales 33 p. 719.

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Physobaris gen. n. near Pseudobaris, intricata pl. xxii f. l, nodosa f. 2, spp. n. Centr. America, Champion p. 452 Biol. Centr.-Amer. Col. 4 pt. v.

Phytonomus; spp. North America, distribution, Webster Ent. News 20 pp. 80-82.—P. murinus introduced into Utah from Europe, serious pest, life history and habits, remedies, pp. 148-153, Trtos J. Econ. Ent. 2.—P. nigrirostris, natural history, N. America, Webster Bull. U. S. Dep. Agric. Ent. 85 pt. i 12 pp. 8 figs.—P. punctatus, natural history, Folsom pp. 83-92 Rep. Ent. Illinois 25.

Pissodes validirostris and noxious spp., Mjöberg Entomol. Tidskr. 30 pp. 243-264 figs.

Platyonicus neavei sp. n. Congo, MARSHALL p. 240 Ann. Soc. ent. Belgique 53. Plinthus gebiensis sp. n. Kaukasus, REITTER Ent. Ztg. Wien 28 p. 307.

Polydrosus pseudo-cervinus sp. n. Turquie d'Asie, Desbrochers Le Frelon 15 1907 p. 99.—P. intermedius sp. n. Italia, Löden Ent. Bl. 5 p. 80.—P. splendens sp. n. Valle Lucano, Solari e Solari Firenze Boll. Soc. Entom. 40 pp. 253-281.

Polyphrades hartmeyeri p. 217, uniformis p. 218, spp. n. S. W. Austral., Lea in Michaelsen 2 Jena.

Poropterus sulciventris p. 188, valgus p. 189, montanus p. 190, humeralis p. 191, carinicollis p. 192, Australia, spp. n., Lea Trans. R. Soc. S. Austral. 33.

Proboscocoelus gen. n. near Aporolobus p. 55, sculpturatus sp. n. New Zealand p. 56, Broun Ann. Nat. Hist. 4.

Protogonum gen. n. for Pentarth. helmsianum, Broun Trans. N. Zeal. Inst. 41 p. 198.

Proxyrodes viridipictus sp. n. Queensland, Lea Trans. R. Soc. S. Austral. 33 p. 150.

Psalidura cancellata, costipennis, approximata, carteri, amplipennis, sublaevigata, amplicollis, sulcipennis, cuneicaudata, penchi, flavosetosa, grandis, variolosa, breviformis, metasternalis, koscius, koana, flavovaria, sloanei, cultrata, monticola, assimilis, perlata, spp. n. Australia, Fergusen Proc. Linn. Soc. N.S.W. 84 pp. 538-583.

Pseluctus ferrugineus sp. n. New Zealand, Broun Trans. N. Zeal. Inst. 41 p. 212.

Psepholax denticostatus sp. n. New Zealand, Broun p. 140 Ann. Nat. Hist.

Pseudacamptus gen n. Acamptina, plurisetosus sp. n. Mexico pl. i f. 2, Champion p. 3 Biol. Centr. Amer. Col. 4 pt. vii.

Pseudapotrepus gen. n. Cossonina macrophthalmus sp. n. Guatemala pl. i f. 22, Champion p. 21 T.c.

Pseudapries pediculosus sp. n. Australia, Lea Jahrb. Hamburg Anst. 26 2 p. 202.

Pseudeucoptus gen. n. Cossonina, macrocephalus sp. n. Panama pl. i f. 31, Champion p. 27 Biol. Centr.-Amer. Col. 4 pt. vii.

Pseudobaris biguttata pl. xxi f. 3 p. 427, disparilis f. 4, sexguttata f. 5, p. 428, niveoguttata f. 6, sinuosa f. 7, irregularis f. 8, p. 429, saturalis, sublineata, p. 430, fraterculus, costrirostris f. 9, p. 431, oscillans f. 10, octonolata f. 11, p. 432, carinipectus f. 12, fasciculata f. 13, p. 433, multiguttata f. 14, leucostigma f. 15, p. 434, cylindricollis f. 16, naevius, p. 435, atikana, f. 17, biolleyi, dentipes, f. 18, p. 436, binotata f. 21 & p. 438, guttifer p. 441, lucens f. 25, subparallela, p. 442, rugipennis, glabripennis, p. 443, mutabilis, perexigua, p. 444, subcaudata, gibbicollis f. 29, p. 446, subrugosa, minuscula, p. 447, scabrida, lucida figs. 30 & 31, p. 448, dividua f. 32, abrupta f. 33, p. 449, diversa p. 450, spp. n., Centr. America; tibialis Boh. f. 19 & p. 437, senescens Boh. f. 20 & p. 438, notata Boh. f. 32, undulata Say f. 23, p. 439, apicalis Boh. f. 24 & p. 440, stigmatica Sol. f. 26, acutipennis Say f. 27, p. 445, plicata Boh. f. 28 &p. 446; CHAMPION Biol. Centr.-Amer. Col. 4

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Pterocolus ovatus, distribution, PIERCE Proc. U. S. Nation. Mus. 37 No. 1708 p. 332.

Rhinanisus peruanus Peru, hirtipennis pl. i f. 13 p. 11, ventralis f. 14, planatus f. 15 p. 12, tenuiculus, pilicauda, p. 13, Centr. America, spp. n., Champion Biol. Centr.-Amer. Col. 4 pt. vii.—R. sulcirostris sp. n. New Zealand, Broun Trans. N. Zeal. Inst. 41 p. 173.—R. gracilis p. 277, elongatus p. 278, subconvexus p. 279, suturalis p. 280, spp. n., New Zealand, Broun Ann. Nat. Hist. 4.

Rhinaria grandis sp. n. N. S. Wales, Lea Trans. R. Soc. S. Austral. 33 p. 171.

Rhinoncus; Metamorphose der paläarktischen Arten, Smirnov Rev. russ. ent. 9 pp. 100-108.

Rhynchites auratus, bacchus und giganteus, Biologie, Schreiner Zs. wiss. Insektenbiol. 5 pp. 6-14.—R. pauxillus, bacchus, giganteus, auratus, cupreus, aequatus und betuleti, Beschreibung, Entwicklung, Lebensweise, Schaden (Russ.), Schreiner Trd. b. entom. učen. kom. Gl. Upr. Zeml. 2 14 1908 p. 52 32 fig. i. T.

Rhyncolus chiriquensis pl. iii f. 30, montivagus p. 74, spp. n. Panama, elumbis Boh. = (fusiformis Woll.) f. 29 & p. 73, CHAMPION Biol. Centr. Amer. Col. 4 pt. vii.

Rhyssematus oculatus sp. n. Arizona, Schaeffer Brooklyn Mus. Bull. 1 p. 386.

Rhytidobaris gen. n. near Glyptobaris p. 406, horrida pl. xx f. 15, granulosa f. 16 p. 407, spp. n., Panama, Champion Biol. Centr.-Amer. Col. 4 pt. v.

Sargon hudsoni sp. n. New Zealand, Broun p. 70 Ann. Nat. Hist. 4.

Selocomis gen. n. for aeneopiceus Broun, Broun Trans. N. Zeal. Inst. 41 p. 177.

Sibinia angulicollis p. 130, indigena p. 135, spp. n. France et Corse, DES-BROCHERS Le Frelon 15 1907.—S. imbricata Mediterranée, subolivacea Turquie d'Asie, p. 100, squamans Mediterranée, seducta Malais etc., p. 101, compacta Italie p. 102, umbrosa Mediterranée, angulicollis France, p. 103, rubripes Espagne, breviuscula, p. 104, brevior, dissimilis, p. 105, tangeriana, argentes-fulva, p. 106, oblonga, Mediterranée, spp. n., sodalis var. n. rotundicollis, p. 107, Desbrochers Le Frelon 15 1907.—S. jugax, remarques sur le nom, BEDEL Paris Bul. soc. ent. 1909 p. 101; observations éthologiques, GOURY Paris Bul. soc. ent. 1909 p. 67; ABEILLE Paris Bul. soc. ent. 1909 p.

Sigastus casuarinae sp. n. Australia, Lea Jahrb. Hamburg Anst. 26 2 p. 199.

Sitones maroccanus, desbrochersi, muricatus, spp. n., STIERLIN Misc. ent. 13 1905 pp. 4 etc.—S. gotzelmanni sp. n. Calabria, REITTER Riv. Coleotter. ital. 7 pp. 87-89.—S. flavescens, natural history, Folsom pp. 112-117 figs. 30-32 Rep. Ent. Illinois 25.

Sphenobaris gen. n. Barina p. 401, quadridens sp. n. Panama p. 402 pl. xx f. 7, Champion Biol. Centr.-Amer. Col. 4 pt. v.

Stenomimus = (Allomimus Lec.), filirostris pl. ii f. 1, armatus f. 2 p. 32, (n-11091 j) dirutus, wollastoni, p. 33, ovaticollis, guatemalensis f. 3 p. 34, veraepacis, rhyncoloides f. 4 p. 35, quichensis, rufipes, rugirostris f. 5 p. 36, spp. n., Centr. America, Champion pt. vii T.c.

Stenommatus sulcifrons sp. n. Panama pl. i f. 11 & p. 9, Champion T.c.

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Stenotrupis = (Dioedimorpha Broun) p: 13, ovaticeps sp. n. Panama pl. i f. 16 & p. 14, Champion Biol. Centr.-Amer. Col. 4 pt. vii.—S. exilis Pasc., CHAMPION pp. 104 & 123 Ent. Mag. 45.

Stephanorhynchus osculator p. 134, morosus p. 135, spp. n., New Zealand, Broun Ann. Nat. Hist. 4.

Stictobaris cribrata pl. xx f. 32 & p. 420, Champion Biol. Centr.-Amer. Col. 4 p. 5.

Stierlinia gen. n. type Cathormiocerus syriacus Stierlin, Desbrochers p. 4 Frelon 17.

Stilboderma gen. n. near Eiratus p. 67, impressipenis sp. n. New Zealand p. 68, Broun Ann. Nat. Hist. 4.

Stilbodiscus gen. n. p. 117 near Clypeorhynchus, setarius sp. n. p. 118 Campbell Isl., Breun Subantaret. Isl. New Zealand 1.

Strophomorphus demaisoni sp. n. Turquie d'Asie, Desbrochers Le Frelon 15 1907 p. 96.

Sympedius rectirostris sp. n. New Zealand, Broun p. 149 Ann. Nat. Hist. 4

†Syntomostylus (?) fertis sp. n. Wyoming Eocene, Cockerell Amer. J. Sci. 28 p. 447 fig. 1.

Systates calcaratus p. 230, rudis p. 240, spp. n., Congo, Marshall Ann. Soc. ent. Belgique 53.

Tanymecus sitonoides sp. n. Moldavia, Solari e Solari Firenze Boll. Soc. Entom. 40 pp. 258-281.

Tanysoma gen. n. for Pent. angustum, Broun Trans. N. Zeal. Inst. 41 p. 166.

Temnorhinus heros sp. n. Turgai-Gebiet, Suvorov Rev. russ. ent. 9 p. 262.

Teripelus gen. n. Otiorhynchidarum p. 233, subpilosus sp. n. Erythiäa p. 234, Heller Ent. Ztg. Wien 28.

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Thaumastophasis Woll. taxonomy, Champion p. 123 Ent. Mag. 45.

Thecesternus; table, foveolatus, hirsutus, maculosus, albidus, spp. n., Texas and New Mexico, Pierce U. S. Nation. Mus. 37 No. 1708 pp. 334-339.

Thesius gen. n. near Inophloeus p. 59, inophloeoides sp. n. New Zealand p. 60, Broun Ann. Nat. Hist. 4.

Timareta puncticollis p. 150, intermixta p. 151, inconstans, swanseaensis, p. 152, nodipennis p. 153, duplicata p, 154, xanthorrhoeae p, 155, Australia spp. n., Lea Trans. R. Soc. S. Aust. 33.

Titinia incisicollis sp. n. S.-W. Austral., Lea in Michaelsen 2 Jena p. 215.

Tomolips; Champion p. 104 Ent. Mag. 45.—T. bicalcaratus Woll. pl. iii figs. 36 & 37 & p. 78, Champion Biol. Centr.-Amer. Col. 4 pt. vii.

Torilus gen. n. near Acalles p. 151, griseicollis sp. n. New Zealand p. 152, Broun Ann. Nat. Hist. 4.

Torneuma andreinii Abruzzo, championi Corfù, spp. n., Solari e Solari Firenze Boll. Soc. Entom 40 pp. 258– 281.

Torostoma gen. n. for Pentarth, apicale Broun, Broun Trans. N. Zeal. Inst. 41 p. 163.

Tosastes; table of spp., globularis New Mexico, ovalis Texas, p. 345, spp. n., Pierce Proc. U. S. Nation. Mus. 37 No. 1708.

Toura gen.n. for Pentarth. longirostre etc., Broun Trans. N. Zeal. Inst. 41 p. 164.

Touropsis gen.n. p. 158 for Pentarth. punctatus Broun, Auckland, Broun Wellington Trans. N. Zeal. Inst. 41 p. 158.

Trachybaris gen. n. near Baris, caelata sp. n. Mexico pl. xxii f. 3, Champion p. 453 Biol. Centr.-Amer. Col. 4 pt. v.

Trachyglyphus gen. n. for rugirostris Br., Broun Wellington Trans. N. Zeal. Inst. 41 p. 195.

Trachyphloeocetus gen. n., cneorhinoides sp. n., Desbrochers p. 3 Frelon 17. Trachyphloeus mamillosus sp. n. Monte Viso, Formanek D. ent. Zs. 1909 p. 625.—T. tenuipes sp. n. Balcaren p. 30, Trachyphloeus variegatus = marroccanis Stierl.) p. 31, Formánek Ent. Ztg. Wien 28.—T. aristatus and olivieri distinguished, Newberry p. 33 Ent. Mag. 45.

Trepobaris perlonga pl. xx f. 33 p. 423, inornata, yucatana, p. 424, spp. n., Mexico, Champion Biol. Centr.-Amer. Col. 4 pt. v.

Trichobaris soror (= vestitus Q Boh.) pl. xx f. 23 p. 413 sp. n., vestita pl. xx f. 2, pellicea f. 24, Champion T.c.

Tychius longinasus sp. n. Turquie d'Asie, Desbrochers Le Frelon 15 1907 p. 108.—I. immaculaticollis p. 168, dimidiatirostris p. 187, seniculus p. 190, spp. n. France et Corse, curvirostris var. n. rasus p. 153, Desbrochers T.c.

Tythobaris gen. n. p. 475 near Pseudobaris, cavimanus sp. n. Guatemala p. 476 & pl. xxii f. 13, Champion Biol. Centr. Amer. Col. 4 pt. v.

Tythonimus gen. n. near Micromimus, rubicundus pl. ii f. 6 p. 37, rufotestaceus, lineatocollis, p. 38, spp. n. Centr. America, Champion T.c. pt. vii.

Unas gen. n. near Microtribus for piceus Br., Broun Trans. N. Zeal. Inst. 41 p. 194.

Wollastonicis gen. n. near Notiomimetes, minutus sp. n. S.-W.-Austral., Lea in Michaelsen 2 Jena p. 231.

Zaglyptoides gen. n. p. 495, ferrugineus sp. n. St. Vincent p. 496, CHAM-PION Biol. Centr.-Amer. Col. 4 pt. v.

Zaglyptus 4-guttatus sp. n. St. Vincent, Champion p. 495 T.c.

Zeacalles lepidulus sp. n. New Zealand, Brown p. 140 Ann. Nat. Hist. 4.

SCOLYTIDAE.

Zur Systematik der Borkenkäfer; Hagedorn Ent. Bl. 5 pp. 137-139 & 162-163.

Die europäischen Borkenkäfer und ihre Nahrungspflanzen in statistischbiologischer Beleuchtung, Kleine Berliner ent. Zs. 53 pp. 213-232.

Leben der Borkenkäfer; Сносолкоуку Lésn. žurn. 39 pp. 429-451 8 fig. i. T. Borkenkäfer-Notizen, WICHMANN Ent. Bl. 5 pp. 172-173.

Die Ambrosia der Holzbohrkäfer, Neger Ber. D. bot. Ges. 27 1909 pp. 372-309 1 Taf.

Adiaeretus gen. n. p. 744, Cryphalidae, spinosus sp. n. Transvaal p. 745, HAGE-DORN D. ent. Zs. 1909.

Araptus camerunus sp. n. Kamerun, Hagedorn p. 743 T.c.

Bothryperus gen. n. Hylesinid., psaltes sp. n. Kamerun, Hagedorn p. 742 T.c.

Chortastus schenklingi, minimus, serrifer, spp. n., Kamerun, Hagedorn pp. 737-739 T.c.

Chramesus globosus, acuteclavatus, spp. n. Argentinia, Hagedorn p. 742 T.c.—C. globulus sp. n. N.W. Himalaya, Stebbing Ind. For. Rec. 2 pt. 1 p. 21.

Dendroctonus; natural history, habits, ctc.; pl. iii f. 1, barberi pl. iii f. 2, convexifrons pl. iii f. 4 f. 3, arizonicus f. 5 p. 70 pl. iii f. 7 pl. iv f. 8, jeffreyi pl. iv f. 2 pl. v f. 14, engelmanni p. 71, United States, borealis Alaska pl. v f. 16, murrayanae United States p. 72, spp. n., HOPRINS Bull. U. S. Dep. Agric. Ent. Techn. 17 pt. pp. xiii + 164 pls. i-viii.

Diamerus impar var. n. nanus Togo, tuberculatus Kamerun, luteus Sumatra, dissimilis Burma, ater Nilgiri Hills, caesius Sumatra, spp. n., Hagedorn D. ent. Zs. 1909 pp. 734-735.

Eccoptogaster laevis, Biologisches, Wichmann Ent. Bl. 5 pp. 147-149 164-165.

Eurydactylus nom. n. für Platydactylus Eichhoff, HAGEDORN D. ent. Zs. 1909 p. 733.

Hexacolus bruchi Argentinia, banosus Ecuador, spp. n., Hagedorn p. 743 T.c.

Hylastes himalayensis p. 2, longifolia p. 3, spp. n., India, Stebbing Ind. For. Mem. 1 pt. 2.

Hylastinus obscurus natural history, Folsom pp. 92-96 Rep. Ent. Illinois 25.

Hypothenemus concolor Kamerun, nanus Argentinia, spp. n., HAGEDORN D. ent. Zs. 1909 p. 744.

Kissophagus fasciatus sp. n. O. Afrika, HAGEDORN p. 737 T.c. Orthaspistes nom. n. für Hypaspistes Haged., HAGEDORN p. 733 T.c.

Phleoborus; Arten und Ergänzung der Diagnosen einiger bekannter Phleotrupiden unter Berücksichtigung der secundären Geschlechtscharaktere, Strohmeyer Ent. Bl. 5 pp. 248-251.

Phlæssinus zhobi p. 6, major p. 7, minor p. 8, spp. n. India, Stebbing Ind. For. Mem. 1 pt. 2.

Pityogenes coniferae sp. n. India, p. 18
Steebing T.c.

Platypus plicatus p. 225, triquetrus p. 226, spp. n. Argentina, Brèthes An. Mus. Buenos Aires 10.

Poecilips ciliatus sp. n. O.-Afrika, Hagedorn D. ent. Zs. 1909 p. 743.

Rhopalopsclion gen. n. Hylesinidae, bituberculatum sp. n. Kamerun, HAGEDORN p. 740 T.c.

Scelytus rugulosus Feinde, Wolff Bromberg Mitt. Inst. Landw. 1 pp. 101-102.—S. major p. 9, minor p. 10, deodara p. 11, spp. n., India, Stebbing Ind. For. Mem. 1 pt. 2.

Sphærotrypes macmahoni sp. n. Baluchistan, Stebbing p. 4 T.c.—S. barbatus sp. n. Sumatra, Hagedorn D. ent. Zs. 1 p. 739.

Strombophorus gen. n. Hylesinidae, crenatus, cordatus, camerunus, spp. n. Kamerun, Hagedorn pp. 740-742 T.c.

Tomicus ribbentropi p. 13, longifolia p. 14, blandfordi p. 15, shoreae p. 16, assamensis p. 17, spp. n., India, Stebbing Ind. For. Mem. 1 pt. 2.

Xyleborus coffeae, Wurth Salatiga Cultuurgids 10 1908 pp. 63–78.— X. dispar in Südrussland, Gänge, Nahrung der Larven, Mokrzecki Progress. sadov. ogorod. 6 pp. 172 179–180; Bostrychus dispar, Noël Naturaliste pp. 109–110.

Xylechinus nigrosetosus sp. n. Argentinia, HAGEDORN D. ent. Zs. 1909 p. 737.

Xylocleptes, sp. n. (?), KNAUS New York J. Ent. Soc. 17 pp. 72-73.

BRENTHIDAE.

List of Kilimandjaro *Brenihidae*, Schönfeldt Kilimandjaro-Meru Exp. 7 16. Allagogus gen. n. Taphroderinae, brunneus sp. n. Ruwenzori pl. vii f. 12, Gahan Tr. zool. Soc. 19.

ANTHRIBIDAE.

Anthribus lewisi p. 159, philpotti p. 160, spp. n., New Zealand, Breun Ann. Nat. Hist. 4.

Arecerus fasciculatus breeding habits, bibliography, Tucker J. Econ. Ent. 2 pp. 373-381.

Brachytarsus varius and Coccidae, Tomlin p. 188 Ent. Mag. 45.

Dinectarius? basiplaga sp. n. India, Jordan p. 308 Nov. Zool. 16.

Disphaerona andrewesi sp. n. India, JGRDAN p. 308 T.c.

Exechesops jordani sp. n. Kew gardens (? from Africa), W. Sharp p. 221 Ent. Mag. 45.

Hypseus picticollis sp. n. India, Jordan p. 307 Nov. Zool. 16.

Litocerus nilgiriensis sp. n. India, JORDAN p. 307 T.c.

Phaulimia lineata nilgiriensis subsp. n., JORDAN p. 308 T.c.

CERAMBYCIDAE.

Revision of Prionidae, part 12, Megopis, LAMEERE Ann. Soc. ent. Belgique 53 pp. 135-170.

Revision of Prionides, part 13, Derancistrines, LAMEERE Mem. Soc. Belgique 17 pp. 170.

Revision of *Prionidae*, part 14, *Nothophysis* and *Cacosceles*, LAMEERE Ann. Soc. ent. Belgique 53 pp. 451-465.

Synonymy of Hope's 1843 African species, JORDAN pp. 309-312 Nov. Zool. 16.

Abaroeus curvidens sp. n. Natal, Aurivillius Entomol. Tidskr. 29 p. 129.

Acanthophorus longipennis Hope = (megalops White,) Jordan p. 309 Nov. Zool. 16.

Achryson unicolor sp. n. Goyaz, GOUNELLE p. 599 fig. 7 Paris Ann. soc. ent. 77.—A. unicolor sp. n. Argentina, Вигон p. 203 Rev. Mus. La Plata 15 Aemona sublineata sp. n. New Zealand, Broun p. 281 Ann. Nat. Hist.

Agapanthia angusticollis var. n. subacutu, Pro p. 106 Echange 25.

Alcyopis nigrovittata sp. n. GOUNELLE Paris Aun. soc. ent. 77 p. 685.

Amphionycha nerisi sp. n. Brésil, Gounelle Paris Bul. soc. ent. 1909 p. 83, fig.—A. temporalis, holmgreni, spp. n. Bolivia, Aurivillius Ark. Zool. 5 No.1 p. 11.

Anaglyptus mysticus ah. n. bequaerti, ROUBAL D. ent. Zs. 1909 p. 562.— A. sexguttatus var. n. disjuncta, Pro p. 123 Echange 25.

Anoploderma (Eumysteria subg. n.) flabellifera p. 199, sp. n. Argentina, BRUCH Rev. Mus. La Plata 15.

Appula sericatula p. 649, melancholica p. 650, spp. n. Goyaz, Gounelle Paris Ann. Soc. ent. 77.

Archetypus frenchi = (Utra nitida Jord.), LAMEERE p. 452 Ann. Soc. ont. Belgique 53.

Atylostagma glabrum sp. n. Arizona, Schaeffer J. Ent. Soc. New York 17 p. 99.

Aulacopus orientalis sp. n. Lindi, HINTZ D. ent. Zs. 1909 p. 556.

Bomarion gen. n. voisin de Heterachthes p. 674, lineatum, scansor, signatipenne p. 675, spp. n. Goyaz, Gounelle Paris Ann. soc. ent. 77.

Brothylus subpebscens sp. n. Arizona, Schaeffer J. Ent. Soc. New York, 17 p. 100.

Cacosceles oedipus Q = (Pithanotes falsus Newm.), LAMEERE p. 452 Ann Soc. ent. Belgique 53.

Callichroma nigricans sp. n. Bolivia, AURIVILLIUS Ark. Zool. 5 No. 1 p. 2.— C. afrum L. = (assimile Hope) p. 310, luteum and atripenne Hope to Mecaspis, igneicolle Hope = (imitator Jord.), p. 311, JORDAN NOV. Zool. 16.

Callidium violaceum, natural history, Shoebotham J. econ. Biol. 4 pp. 114-123.

Ceroplesis reticulata sp. n. Ruwenzori pl. vi f. 11 & p. 211, Gahan Tr. zool. Soc. 19. Closteromerus consimilis sp. n. Afrique orientale, Gahan Bul. muséum Paris 1909 p. 72.

Clytus (Perissus) wollastoni sp. n. Ruwenzori pl. vi f. 7 & p. 209, GAHAN Tr. zool. Soc. 19.

Coccoderus speciosus sp. n. Goyaz, GOUNELLE Paris Ann. soc. ent. 77 p. 606.

Compsa arcufera, inconstans, spp. n. Goyaz, Gounelle T.c. p. 669.

Compsoceridius subg. n. vide Compsocerus.

Compsocerus (Compsoceridius subg. n. p. 207), gonnellei sp. n. Argentina p. 208, Bruch Rev. Mus. La Plata 15_t

Compsodorcadion androsovi p. 93 sp. n., var. n. birsukorum p. 95 Turgai-Gebiet, Suvorov Rev. russ. ent. 9.

Coremia ferruginea sp. n. Argentina, Вкисн р. 213 Rev. Mus. La Plata 15.

Crioction gahani sp. n. Goyaz, GOUNELLE Paris Ann. soc. ent. 77 p. 609.

Cupanoscelis gen. n. p. 618 Eburiini, heteroclita, clavipes spp. n. p. 619, Goyaz, Gounelle T.c.

Cycnidolon gounellei sp. n. Argentina, Bruch p. 206 Rev. Mus. La Plata 15.

Deliathis incana bei Danzig, Ross Intern. ent. Zs. 3 p. 201.

Demagogus duchesnei sp. n. L'-Abyssinie, Lesne Mission en Ethiopie p. 105.

Diammaphora auratopilosa sp. n. Argentina, Вкисн р. 214 Rev. Mus. La Plata 15.

Dirphya delecta sp. n. Ruwenzori pl. vi f. 17 & p. 214, Gahan Tr. zool. Soc. 19.

Dityloderus; characters amended, Gahan p. 210 T.c.

Dorcadion ardoisi sp. n. Spain, Schramm p. 296 Bol. Soc. espan. 9. —D. cineriferum sp. n. Transcaucasia, Suvorov Rev. russ. ent. 9 p. 290.—D. apicipenne B. Jak. = (dsungaricum Pic.), Semenov p. 27 T.c.—D. ferruginipes sublimatum, kuldschanum pauli, rufoyenum posticejunctum,

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Enoplocerus gigas sp. n. Paraguay, CSIKI Ann. 7 p. 343 Tab. vi.

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Hybolasius varipes sp. n. New Zealand, Broun p. 284 Ann. Nat. Nist. 4.

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Monohammus confusor Kirby synonym of notatus Drury, Schaeffer J. Ent. Soc. New York 17 p. 111.—M. titillator synonyms, habits, life history, Webb U.S. Dept. Agric. Ent. Bull. 58 Part 4.

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Nyssodrys albomaculata sp. n. Peru. Aurivillius Ark. Zool. 5 No. 1 p. 10.

Oberea ventralis sp. n. Afrique orientale, Gahan Bul. muséum Paris 1909 p. 75.

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Phoebe spegazzinii sp. n. Argentina, Bruch p. 219 Rev. Mus. La Plata 15.

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Pseudhammus rothschildi sp. n. Afrique orientale, Gahan Bul. muséum Paris 1909 p. 73.

Purpuricenus amoenis procerus Sem. = P. procerus Sem. bona sp., Semenov Rev. russ. ent. 9 p. 27.

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Sicyobius bronsii, food plant, habits etc., Knaus New York J. Ent. Soc. 17 pp. 71-72.

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Strongylaspis scobinatus Florida, Cuba, Mexico, Nicaragua, Schaeffer J. Ent. Soc. New York 17 p. 149.

Tetroplon aurivillii sp. n. Goyaz, Gounelle Paris Ann. soc. ent. 77 p. 656.

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Titanus giganteus, LE MOULT Paris Bul. soc. ent. 1909 p. 55.

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Tragocephala; Artenübersicht, Ross Intern. ent. Zs. 3 pp. 184-186.— T. berchmansi, similis, probi, Togo, pretiosa, nyassica, O. Afrika, spp. n., HINTZ D. ent. Zs. 1909 pp. 558-559.

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BRUCHIDAE.

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Caryopemon giganteus sp. n., Pic Naturaliste Paris 31 p. 34.

Laria boudoni sp. n., Boudon Ann. fac. sci. Marseille 17 p. 20.

CHRYSOMELIDAE.

Mœurs et métamorphoses des Coléoptères de la tribu des Chrysoméliens, Xambeu Naturaliste 31 pp. 60-62 66-68 80-81.

Lebensweise einiger Halticinen, HEI-KERTINGER Wien Verh. zool. bot. Ges. 59 pp. (26)-(28).

Recherches du l'époque d'éclosion des Altises, et sur la biologie et le caractère de quelques *Thyamis* Steph. de la faune de France; Du Buysson Misc. ent. 15 39 pp.

Sur la ponte, ou les premiers états, de divers Clytrides, Pic Paris Bul. soc. ent. 1909 pp. 68-70.

Nuptial colors, KNAB Washington Proc. Ent. Soc. 11 pp. 151-153

Acrothinium gaschkewitchi Metamorphosis (Japanese), Nishi Konch. Sek. 13 pp. 100-103.

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Aphthona wagneri sp. n. Korsica, Heikertinger Wien Verh. ZoolBot. Ges. 59 pp. (9)-(16).—A. diminuta sp. n. Algeria, ABEILLE p. 180 Bull. Soc. ent. France 1909.—A. subrufescens sp. n., Pto p. 156 Echange 25.—A. kibonotensis, peregrina, p. 232, montivaga p. 233, spp n., Weise Kilimandjaro-Meru Exp. 7 12.

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Aulacophera olivieri, FROGGATT Agric. Gaz. N.S.W. March 1909 4 pp. 1 pl.

Aulamorphus variabilis pl. vii f. 5 & p. 222, Gahan Tr. zool. Soc. 19.

Badenis gen. n. near Eubrachys, parvula sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 182.

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Beiratia pusilla sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 215.

Blepharida bodongi sp. n. D. S.-W. Afrika, Weise Arch. Natg. 75 p. 128.—
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Bonesia montana sp. n. Ruwenzori, GAHAN p. 220 Tr. zool. Soc. 19.

Brachispa spinosissima sp. n. Natal, Gestro Portici Boll. Lab. zool. 3 pp. 197-204.

Calliyrapha rhoda p. 83, rowena p. 85, amelia p. 86, spp. n., N. America, KNAB Proc. Ent. Soc. Washington 11.

Cassida sjoestedti p. 268, C. (Odontionycha) kilimana p. 269, inornata p. 271, spp. n., Spaeth Kilimandjaro-Meru Exp. 7 13.—C. immersa sp. n. Süd-Amerika, Spaeth Wien Verh. ZoolBot. Ges. 59 pp. 364–397.

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Chalcoides; the British species, EDWARDS pp. 127-129 Ent. Mag. 45.

Charidotis speculum nom. n. für fulviventris Spaeth, Spaeth Wien Verh. ZoolBot. Ges. 59 pp. 364-397.

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Colobaspis suturalis sp. n. Mozambique, CLAVAREAU p. 377 Ann. Soc. ent. Belgique 53.

Coptocycla ganglbaueri sp. n. Brasilien, glabrata, 10-punctata, Synonymic, Spaeth Verh. z. b. Ges. Wien 59 pp. 364-397.

Crepidodera ferruginea, RUPERTSBERGER Zs. wiss. Insektenbiol. 5 pp. 403-404.—C. magna p. 220, montivaga, viridipennis, sjoestedti, p. 221, spp. n., Weise Kilimandjaro-Meru Exp. 7 12.

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Ctenochira costaricensis Costarica, guttula, marginata, Peru, spp.: n., SPAETH Wien Verh. ZoolBot. Ges. 59 pp. 364-397.

Dactylispa hospes, madagassa, fulvifrons, signicornis, ambarum, humilis, provida, sicardi, basicornis, spp. n. Madagascar, Weise Arch. Natg. 75 p. 112-117.

Dermoxanthus alternans sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 189.

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Scott Ohio Nat. 9 pp. 423-430.—D. mellicollis, economic notes, Chittenden U. S. Dept. Agric. Ent. Bull. 82 Part 3 pp. 29-32.

Ditropidus opacicollis sp. n. Nouvelle-Calédonie, FAUVEL Rev. ent. 26 p. 152.

Donacia; Époques d'évolution et habitat dans le département de la Gironde, Lamberrie Bordeaux Actes soc. linn. 72 pp. exxxviii—exxxii.—D. crassipes Embryonalentwicklung, Hirschler Zs. wiss. Zool. 92 pp. 627-744 5 Taf.—D. sahlbergi Varietät von bactriana, Sumakow Jurjev Sitzb. Naturf. Gee. 17 p. 221.—Donacia transcaucasica Sum. = gracilicornis Jac., Verbreitung, dichotomische Tabelle für die benacharten Arten, Sumakov Tiflis Mitt. Kauk. Mus. 4 p. 206.

Eastcourtiana biformis sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 203.

Epithrix judaea var. n. testaceipes, Pic p. 226 Bull. Soc. ent. France 1909. —E. aethiopica sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 222.

Entomoscelis adonidis Schädling der Rübenfelder in Bessarabien, Квазийšонк Bessar. selĭsk. choz. 1909 pp. 462– 475.

Eremiella gen. n. p. 228 near Phygasia, rubra p. 229 pl. iv. f. 5 sp. n., Weise Kilimandjaro-Meru Exp. 7 12.

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Eurylegna gen. n. near Phygasia, fulva sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 228.

Euryope costata p. 390, wellmani p. 391, Benguela, spp. n. jacobyi n. n. = (discicollis Jac. 1897), Clavareau Ann. Soc. ent. Belgique 53.

Eutheria gen. n. fur Chelymorpha piperata Burm., Spaeth D. ent. Zs. 1909 p. 723.

Exestastica gen. n. für Chelymorpha ignobilis Boh., Spaeth p. 721 T.c.

Exosoma monticola, meruensis p. £00, kibonotensis, persimplex p. 201, spp. n., Weise Kilimandjaro-Meru Exp. 7 12.

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Macroplea piligera Weise = (Haemonia incostata Pic), Semenov Rev. russ. ent. 9 p. 27.

Haltica fulgens sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 225.

Hemiphracta jacobyi sp. n. Ruwenzori, Gahan p. 222 Tr. zool. Soc. 19.

Hemixantha maculata sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 216.

Herissa gen. n. für Chelymorpha pantherina Boh., Spaeth D. ent. Zs. 1909 p. 724.

Hermaeophaga kibonotensis sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 226.

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Omaspides andicola Peruvia, convexicollis Costa Rica, flavofasciata Peruvia, spp. n., Spaeth Wien Verh. ZoolBot. Ges. 59 pp. 364-397.

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Omoplata iheringi, multisinuata, Brasil, spp. n., Spaeth Wien Verh. ZoolBot. Ges. 59 pp. 364-397.

Ootheca kibonotensis sp. n., Weise Kilimandjaro-Meru Exp. 7 12 p. 199.

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Phyllotreta austriaca sp. n. Wien, HEIKERTINGER Wien Verh. ZoolBot. Ges. 59 pp. (9)-(16).-P. judaea Pic. balcanica, ganglbaueri, Oesterreich- Ungarn, spp. n., Heikertinger Wien Verh. ZoolBot. Ges. 59 pp. (290)-(295). -P. hemipoda sp. n. Algeria, ABEILLE p. 180 Bull. Soc. ent. France 1909 .-P. tunisea sp. n., Pic p. 145 Echange 25.

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Phytodectoidea gen. n. for Chelymorpha part, Spaeth D. ent. Zs. 1909 p. 718.

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Stenomantura subgen. n. ex gen. Mantura, Heikertinger Wien Verh. Zool. Bot. Ges. 59 pp. (369)-(372).

Stoiba gen. n. für Chelymorpha flaricollis Boh., Spaeth D. ent. Zs. 1909 p. 720.

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Timarcha metallica ab. n. wendleri Bosnien, Fleischer p. 32 Ent. Ztg. Wien 28.

Xiphispa latirostris sp. n. Antsianaka, Gestro Portici Boll. Lab. zool. 3 pp. 197-204.—X. papuana sp. n. Neu Guinea, Weise Arch. Natg. 75 p. 119.

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EROTYLIDAE incl. HELOTIDAE and LANGURIIDAE.

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Trochoideus bicolor Sumatra, minutus Malacca, spp. n., Csiki Ann. Mus. Hung. 7 p. 342.

COCCINELLIDAE.

Révision des Coccinellides de la faune Malgache; Sicard Paris Ann. Soc. Ent. 78 pp. 63–165 fig.

Giftwirkung des Coccinellidensaftes; MEISSNER Ent. Bl. 5 p. 181.

Verzeichnis der in u. um Sommerfeld (Lausitz) vorkommenden Coccinelliden; Kessler Intern. ent. Zs. 2 1908 p. 236.

Adalia bipunctata und abb. 6-pustulata u. 4-maculata, Erscheinungen der Zeichnungsvererbung; SCHRODER Zs. wiss. Insektenbiol. 5 pp. 132-134.—A. bipunctata Varietäten; MEISSNER Zs. wiss. Insektenbiol. 5 pp. 231-242.

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Verrania perrieri, flavomarginata, spp. n., Madagascar, Sicard Paris Ann. soc. ent. 78 p. 89.

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Sericoderus (Anisomeristes) pecirkanus sp. n. Cairo, Reitter p. 40 Bull. Soc. ent. Egypte 1.

STREPSIPTERA.

Monographic revision of the Order; PIERCE Bull. U. S. Nat. Mus. 66 232 pp. & 15 pls.

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Pentagrammaphila gen. n. near Elenchus, uhleri sp. n. on Pentagramma vittatifrons Dakota, Pierce p. 169 T.c.

HYMENOPTERA.

The wing-nervures of Hymenoptera, Morley pp. 439-447 Tr. ent. Soc. London 1909.

Hymenoptera aculeata im arktischen Norwegen, Schneider Tromsø Mus. Aarsh. 29 1906 pp. 81-160.

Hyménoptères du Valais, Frey-Gessner Bul. Murith. 35 pp. 55-117.

Hymenopteren aus Tripolis und Barka (exkl. Formicidae), Schulthess Rechberg Zool. Jahrb. Syst. 27 pp. 439-446.

APIDAE.

Synonymie der Apiden, Friese D. ent. Zs. 1909 Beih. pp. 124-128.

Bestimmungstabellen, Apidae Mittelrusslands, Kokujev Jaroslavli Mém. Soc. nat. 2 pp. 1–228 2 Taf.

Corrections of nomenclature, Cocke-RELL Proc. U. S. Nation. Mus. 36 No. 1674 pp. 411-420.

Some anthidine bees, COCKERELL Ent. News 20 pp. 261-262.

Berichtigung betr. Biol. Mitt. über Südamerikau. Apiden, Jensen-Haarup Zs. wiss. Insektenbiol. 5 p. 104.

Habits of bees, Corsica, France and Algeria, Nests etc., Ferron Ann. Soc. ent. France 77 pp. 535-554.

Die Bienen Afrikas nach dem Stande unserer heutigen Kenntnisse; FRIESE L. Schultze Zool. u. Anthrop. Ergebnisse e. Forschungsreise in Südafrika. Bd 2 Lfg 2) Jena Denkschr. med. Ges. 14 pp. 83-475 2 Taf.

Synonymy and taxonomy of the genera of Anthophoridae [not given in detail below], Brethes An. Mus. Buenos Aires 19 pp. 219-223.

Les mâles d'Abeilles proviennent-ils d'œufs parthénogénétiques? CUENOT Paris C. R. soc. biol. 65 pp. 765-767.

Les mâles d'abeilles proviennent-ils toujours d'œufs parthénogénétiques? Cuénot Bull. Sci. Fr. Belgique 43 pp. 1-9.

Les abeilles sauvages du Chaco austral et leurs produits, IOHES Paris Bul. soc. nat. acelim. 55 pp. 276-277.

Le sens de la direction chez les abeilles, BONNIER Paris C. R. Acad. sei. 148 pp. 1019-1023.

Le socialisme chez les abeilles, Bonnier Bul. inst. psych. internat. 7 1907 pp. 397-426.

Agapostemon sulcatulus sp. n. Nebraska, Cockerell p. 25 Ann. Nat. Hist. 4.—A. sicheli Vach. is Nomia tacita Cam., and N. cillaba Cam. is also Agapostemon, Cockerell p. 311 T.c.

Allodape albipennis sp. n. S.-Afrika, Friese Jena Denkschr. 14 p. 205.—A. biroi sp. n. Simbang, nitida Aru, simillima Australia, unicolor Neu-Guinea, Friese Ann. Mus. Hung. 7 p. 209.

Ancyloscellis imitatrix sp. n. Paraguay, Schrottky An. Soc. Argent. 67 p. 223. —A. osmioides sp. n. Ceara, Ducke Rev. ent. Caen 27 p. 71.—A. specularis p. 21, ruficruris p. 23, S. America, spp. n., Vachal op. cit. 23

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†A. ? primaeva sp. n. Miocene Oeningen, Cockerell p. 316 Entomologist 42.

Anthidium and Dianthidium, composition, Cockerell pp. 316 & 317 Ann. Nat. Hist. 4.—Anthidium, Proanthidium, Dianthidium, European exponents, Cockerell p. 269 Ent. Rec. 21.—Anthidium volkmanni p. 409, rufocaudata p. 410, S.-Afrika, spp. n., Friese Jona Donkschr. 14.—A. sjoestedti sp. n., Friese Kilimandjaro-Meru Exp. 8 5 p. 158.—A. biroi Neu-Guinea, javanicum Java, turneri N.-Queensland, spp. n., Friese Ann. Mus. Hung. 7 p. 257.—A. radiale p. 77, furcatum p. 78, Ceara, spp. n., Ducke Rev. ent. Caen 27.

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†Anthophorites titania and longaeva Heer, COOKERELL p. 315 Entomologist 42.

Anthrenoides paspali sp. n. Paraguay, Schrottry p. 148 kev. Mus. La Plata 16.

Apis dorsata, FRIESE Ann. Mus. Hung. 7 p. 278.

Apis mellifica Anzahl der Flügelhaken, Bachmetjew Zs. wiss. Zool. 94
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Afanasjev Russ. pčelovod. listok. 24
pp. 352-354; Einfluss der Nahrung und
der Arbeiterinnen auf die Stärke der

Brut, Čujev Stepnoje pčel. 3 pp. 171-176; Rassen, deren Einführung, PARA-DIEV Pčelov. žizni 3 1908 pp. 79-88; Rassenverbesserung, Sněžnevskij Zap. Obšč. selisk. choz. južn. Ross. 79 pp. 1-11; Regulierung der Brut, ČUJEV Stepnoje pčelov. Novočerkask 3 pp. 195-204; und der rote Klee, ERDO-KIMOV Pčelov. žizni 4 pp. 695-698; Zelle vom matematischen Gesichts punkte, Běliajevskij Pčelov. žizní 4 pp. 804-809; Psychologie, Sněžnevs-RIJ Russ. pčclov. listok. 24 pp. 110-112; der Krim, PRITULENKO Pčelov. žizni 4 pp. 399-410; Zuckergehalt der Nahrung, Soloviev Pčelov. žizni Viatka 4 pp. 309-311; Ueberwinterung, Srobrianskij Pčelov. žizni 4 pp. 301-307; Künstliche Aufzucht von Weiseln, Ivanov Pčelov. žizni 3 1908 pp. 148 etc.; Parthenogenese, Smirnov Pčela 10 pp. 8-18; Parthenogenese, Grup-Nov Pčela 10 pp. 84-88 & 212-218; Befruchtung, Parthenogenese, Dubrov Pčelovodstvo 9 pp. 22-23 42-46; Geschlechtsbestimmung, DICKEL Zool. Auz. 34 pp. 212-223 & 236-248, Meine Bienenversuche und die "Stimmen der Wissenschaft," Bresslau Bienenwirtsch. Centralbl. 45 pp. 50-54; Entgegnung v. H. v. BUTTEL t.c. pp. 68-69 132-134; Psychologie, Sněžinskij Russ. pčelov. listok. 24 pp. 52-55 88-91; Instinkte, Schwärmen, Виткеviŏ Pčela 10 pp. 146-152; individuclle Verschiedenheiten, Sajó Prometheus 21 pp. 42-43; Zwei Weisel in einem Stock, Fisun Pčelovodstvo 9 pp. 18-21 46-51 & RYBAROV Russ. pčelov. listok 24 pp. 51-52; Mehrere Weibchen in einem Stock, ILINSKIJ Russ. pčelovod. listok 24 pp. 15-19; Erstechen einer Drohne durch eine frischausgeschlüpfte Königin, WAET-ZEL Zool. Anz. 34 pp. 639-646; Kopf der larve, ZANDER Zool. Anz. 34 pp. 763-765; Observations, HUBER Kazani [Soc. d'Apicult. de Kazan] 1908 pp. 192 + 3 2 pls.; Unsere Honigbiene, Populär, Sajó Stuttgart Kosmos 1909 109

†Apis mellifera in amber or copal?, COCKERELL p. 317 Entomologist 42.

Apista gaullei, limbella, Bolivia spp. n., VACHAL Rev. ent. Caen 28 p. 37.

Augochlora; rearranged, leocadia n. n. for Acidalia Schr., Schrottky p. 481

D. ent. Zs. 1909.—A. jamaicana sp. n. Jamaica, Cockerell p. 399 Ann. Nat. Hist. 4.—A. sumptucsa bolliana subsp. n., Cockerell p. 31 T.o.—A. (Pseudaugochloropsis) hypsipyle p. 215, pandrosos p. 216, spp. n., Brazil, Schrottky An. Soc. Argent. 67.—A. (Paraugochloropsis subg. n.) bertonii sp. n. Paraguay, Schrottry p. 148 Rev. Mus. La Plata 16

Augochloropsis cockcrelli (= berenice Cock.) sp. n. Paraguay, Schrottky p. 147 T.c.

Biglossa andina sp. n. Argentinia, JÖRGENSEN p. 221 D. ent. Zs. 1909.— B. rubriventris sp. n. Argentinia, FRIESE D. ent. Zs. 1909 p. 235.

Birkmania gen. n. near Macrotera, andrenoides sp. n. Texas, VIERECK p. 50 Washington Proc. Ent. Soc. 11.

Bombus; Krausse Soc. entomol. 23 pp. 185-187, 24 pp. 85-87; hovering of, SAUNDERS p. 83 Ent. Mag. 45. Bombus terrestris sassaricus, Krausse Ent. Rdsch. 26 p. 23 .- B. tetrachromus sp. n. Baltistan, Cockerell p. 397 Ann. Nat. Hist. 4.—B. hyperboreus albertensis var. n. or sp. n., COCKERELL p. 36 Canad. Ent. 41.—B. hortorum eleonorae v. n., Krausse Intern. ent. Zs. 3 p. 1b.—Varr., Corsica, Pérez Bordeaux Actes soc. linn. 72 pp. clviiclix.—B. derhamellus zonophorus, silantjevi disconotus, p. 260, laesus ferrugifer, convergens albopauperatus and progenitor, p. 261, and maculinotus, silvarum euxinus, argillaceus flavodisjunctus, p. 262, varr. and subspp. n., SKORIKOV Rev. russe Ent. 8.—B. mendax varr. n. bizcnatus Alpen, friseanus, p. 328, perfuga, Alpen, subspp. n. altaicus Altai, shaposhnikovi Kaukasus, makarjini Pamir, turkestanicus Tur-kestan, p. 329, defector Ferghana, marussinus Pamir, var. n. aberrans Pamir, subsp. n. chinensis Sinin et Burchau-Budda, p. 330, Skorikov Rev. russ. ent. 9.—B. mastrucatus varr. n. collaris, transitorius, lutescens, luteus, kashmirensis & stramineus, terrestris varr. n. monozonus, sardous, fulvus, erythropygus, flavofasciatus, simlaënsis, fulvocinctus, japonicus, pp. 673-674, soroënsis varr. n. bipunctatus, rarus, tricolor, bipustulatus, rarior, cinctiventris, alfkeni, bivittatus, magnificus & dives, pratorum varr. n. flavicolor. dorsatus & oceanicus, derhamellus var. n

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Brachycephalapis subgen. n. vide Melitta.

Caenohalictus serripes sp. n. Barbacena, Ducke Rev. ent. Caen 27 p. 29.

Calliopsis coloratipes fedorensis subsp. n., Cockerell p. 28 Ann. Nat. Hist. 4.

Callosphecodes subgen. n. von Sphecodes, ralunensis sp. n. Bismarck-Archipel, FRIESE Ann. Mus. Hung. 7 p. 182.

Camptopoeum modestum p. 42, obscurigaster, laetum, dubium, p. 43, culiculum p. 44, nigritarse p. 45, sicheli p. 46, S. America, spp. n., VACHAL Rev. ent. Caen 28.

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Centris Fabr.; synonyms Eulema Lep. & Euglossa Friese, SCHROTTKY Proc. Ent. Soc. Washington 11 p. 161. —C. hyptides sp. n. Ceara, DUOKE Rev. ent. Caen 27 p. 75.

Ceratina; Arten, Bestimmungstabelle, Friese Kilimandjaro-Meru Exp. 8 5 p. 134.—C. 6-maculata var. n. avrata, kuehni sp. n. Asia Archipel, Friese Ann. Mus. Hung. 7 p. 208.—C. fulvofasciata sp. n. Yeru, Ducke Rev. ent. Caen 27 p. 32.—C. nigerrina sp. n. Paraguay, Friese D. ent. Zs. 1909 p. 236.—C. richardsoniae p. 221, gomphrenae p. 222, spp. n., laeta imperialis subsp. n. p. 221, Paraguay, Schrottry An. Soc. Argent 67.—C. appendiculata Cam. to Nomioides, Cockerell, p. 312 Ann. Nat. Hist. 4.

†Chalcobombus gen. n. near Bombus, humilis sp. n. Baltischer Bernstein, Cockerell Königsberg Schr. physik. Ges. 50 pp. 11-12.—C. martialis sp. n. Baltischer Bernstein, Cockerell T.c. p. 22.

Coeliozoides waltheriae sp. n. Para, Ducke Rev. ent. Caen 27 p. 43.

Coelioxys albiceps Stephansort, biroi Neu-Guinea, spp. n., FRIESE Ann. Mus. Hung. 7 pp. 268-271.—C. deani sp. n. Colorado p. 8 sayi novomexicana subsp. n., soledadensis New Mexico, p. 9, sp. n., Cockerell Ent. News 20.—C. schultzi, humahuacac, p. 59, joergenseni p. 72, jujuyensis p. 88, fontanae p. 89, spp. n., Argentina, Holmberg Apunt. hist. nat. 1.—C. Bestimmungstabelle, FRIESE Kilimandjaro-Meru Exp. 8 5 p. 149.—C. lativentris sp. n. S. Afrika, FRIESE Jena Denkschr. 14. p. 425.

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Ctenoplectra chalybea, FRIESE Ann. Mus. Hung. 7 p. 207.—C. fuscipes, sjoestedti, spp. n., FRIESE Kilimandjaro-Meru Exp. 8 5 p. 130 9, Bestimmungstabelle der Arten p. 131.

†Ctenoplectrella gen. n. Megachilidae, viridiceps sp. n. baltischer Bernstein, Cockerell Königsberg Schr. physik. Ges. 50 p. 19.

Desmotetrapedia gen. n. type Tetrapedia muelleri Tr., D. melochiae sp. n. Paraguay, Schrottky An. Soc. Argent. 67 p. 223.

Diadasia skinneri sp. n. Utah, Cockerell Ent. News 20 p. 206.

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—A. hirsula var., Zavattari Torino Boll. Musei zool. anat. 24 p. 596.

Ammoplanus madecassus sp. n. Madagaskar, Kohl Reise Ostafrika 2 p. 374.

—A. eriogoni sp. n. Colorado p. 101,
Rohwer Trans. Amer. Ent. Soc. 35.

Anacrabro meridionalis sp. n. S. America, Duore Rev. ent. Caen 27 p. 47.—A. occilatus, nesting habits, Barth Bull. Wisc. Nat. Hist. Soc. 6 pp. 147-153 pl.

Anthobosca moderata sp. n. Townsville, Turner p. 482 Ann. Nat. Hist. 3.—A. bipustulata sp. n. Minas Geraes, Turner p. 343 op. cit. 4.

Apterogyna schultzei sp. n. S. Africa, André D. ent. Zs. 1909 Beih. p. 122 and Jena Denkschr. 14. p. 72.

Ariphron excisus sp. n. S. Australia, Turner p. 135 Ann. Nat. Hist. 3.

Astata asperiformis sp. n. Colorado, Rohwer p. 371 Ent. News 20.— A. resoluta, compta, p. 510, selecta, absoluta, kashmirensis, p. 511, spp. n., India, Nurse Bombay J. Nat. Hist. Soc. 19.

Atillum bucephalum var. asininum Burm. p. 175, infernale Burm. = (M. hirnii D.T.) p. 177, André An., Mus. Buenos Aires 10.

Barymutilla barbara var. n. fugitiva S. Afrika, André Jena Denkschr. p. 77.

Bembex latebrosa sp. n. Madagascar, Kohl Reise Ostafrika 2 p. 373.— B. ? defecta sp. n. Montevideo, Brèthes An. Mus. Buenos Aires 19 p. 64.—B. borrei habits, JACOBSON Bul. Muséum Paris 1909 pp. 451–453.

Campsomeris gilesi p. 171, carinifrons p. 174, subopaca p. 175, spp. n., flavidula var. n. congener p. 171, Turner Ann. Nat. Hist. 4. Cephalomutilla gen. n. type M. diabolica Gerst., André p. 194 An. Mus. Buenos Aires 10.

Cerceris arechavaletai, dichrous, Uruguay, spp. n., Brèthes An. Mus. Buenos Aires 19 p. 65.

Cosila flavicornis Sauss. to Anthobosca, Turner p. 483 Ann. Nat. Hist.

Crabro dilectiformis, banksi, p. 147 florissantensis p. 149, lacteipennis, tridentatus, p. 150, zellus p. 151, universitatis p. 152, spp. n., U.S., Rohwer Ent. News 20.—C. (Hoplocrabro) boulderensis sp. n. Colorado, Rohwer p. 323 T.c.—C. (Hoplocrabro) spinibuccus f. 2a, C. (Cuphopterus) foveolineatus f. 2b, spp. n., California, VIERECK p. 44 Washington Proc. Ent. Soc. 11.—C. (Rhopalum) arechavaletai sp. n. Uruguay, Brèthes An. Mus. Buenos Aires 19 p. 66.—†C. succinalis, tornqvisti, spp. n. Baltischer Bernstein, Cockerell Königsberg Schr. physik. Ges. 50 p. 3.

Dasylabris schultzei, virgo, kalahariana, cruentocineta, S. Afrika spp. n., André D. ent. Zs. 1909 Beih. p. 123, also Jena Denkschr. 14 pp. 73-76.—D. kandla p. 387, karroa p. 388, spp. n. S. Africa, Peringury Ann. S. Afric. Mus. 5.

Dasylabroides neavei sp. n. Congo, André p. 99 Ann. Soc. ent. Belgique

Diodontus argentinae, vallicolae p. 104 with salicis subsp. n., cockerelli p. 105, fraternus, neomexicanus, p. 106, florissantensis p. 107, spp. n., Colorado, ROHWER Trans. Amer. Ent. Soc. 35.

Diploplectron rufoantennatus, fossor, p. 120, bidentatiformis p. 121, florissantensis, ashmeadi, p. 122, cressoni, relativus, p. 123, spp. n., Colorado, Rohwer T.c.

Discolia ornaticollis sp. n. Borneo, Cameron p. 174 Entomologist 42.

Elaphroptera promissa sp. n. Chile, Turner p. 134 Ann. Nat. Hist. 3.

Elis; name transferred to Plesia and replaced by Campsomeris; TURNER p. 165 Op. cit. 4.

Ephuta boulderensis sp. n. Colorado p. 133, Rohwer Trans. Amer. Ent. Soc. 35, Ephutomorpha aurigera sp. n. Queensland, Bingham p. 487 Ann. Nat. Hist. 3.

Gorytes transcaspicus sp. n. Transcaspia, Kokujev Rev. russ. ent. 9 p. 230.—G. cockerelli sp. n. Colorado, Rohwer p. 371 Ent. News 20.

†Hadronotus electrinus sp. n. Baltischer Bernstein, Cockerell Königsberg Schr. physik. Ges. 50 p. 2.

Hemipepsis exul sp. n. Madagascar, Kohl Reise Ostafrika 2 p. 376.

Iswarra and allies, Turner p. 476 Ann. Nat. Hist. 3.

Irenangelus ichneumonoides sp. n. Amazons, Ducke Rev. ent. Caen 27 p. 51.

Konowiella gen. n. incertae sedis p. 106, hirticornis sp. n. Mendoza p. 107, André Paris Bul. soc. ent. 1909.

Lyroda cockerelli sp. n. Colorado, Rонwer p. 369 Ent. News 20.

Methoca ichneumonides, Lebensweise, Metamorphose, Bouwman Tijdschr. Ent. 52 pp. 284-294, 296-299.

Mimesa myersiana sp. n. Pennsylvania, Rohwer p. 324 Ent. News 20.

Miscophinus galei p. 124, nigrescens, cyanurus, p. 125, maurus p. 126, spp. n., Colorado, Rohwer Trans. Amer. Ent. Soc. 35.

Motes anticus var. n. rufithorax, Duoke Rev. ent. Caen 27 p. 49.

Mutilla bunkeyana sp. n. Congo, André p. 99 Ann. Soc. ent. Belgique 53.—M. amalita p. 393, amatonga p. 396, andreana p. 409, araphe p. 405, lambata p. 400, batawana p. 398, bizana p. 405, concinna p. 408, dalila p. 392, friana p. 407, gaza p. 393, inkona p. 396, manoa p. 404, matola p. 394, petrusiana p. 406, promontorii p. 399, sabina p. 403, segkoma p. 395, umganze p. 399, umtalina p. 397, umtata p. 402, spp. n. S. Africa, Peringuey Ann. S. afric. Mus. 5.— M. amans p. 173, bataviana p. 177, spp. n., Java, André Leiden Notes Mus. 31.—M. annexa p. 146, devia p. 147, spp. n Borneo, CAMERON Entomologist 42.—M. (Ephutomorpha?) doddi sp. n. Queensland, BINGHAM p. 486 Ann. Nat. Hist. 3 .- M. hoplitiformis sp. n. Paraguay, STRAND p. 233 D. ent. Zs. 1909.

Myrmilla bidentata & p. 389, rhodesia p. 390 sp. n. S. Africa, Peringuey Ann. S. afric. Mus. 5.—M. reunionis sp. n. Riunione, ZAVATTARI Torino, Boll. Musei zool. anat. 24 N. 613.

Myzine clavicornis sp. n. India, Turner p. 476 Ann. Nat. Hist. 3.

Nitela reticulata sp. n. Pará, Ducke Rev. ent. Caen 27 p. 47.

Niteliopsis licidis p. 111, vierecki p. 112, parvvs, affinis, p. 113, sayi p. 114, niger p. 115, modestus, fossor, p. 116, spp. n., Colorado, Rohwer Trans. Amer. Ent. Soc. 35.

Notocyphus jorgenseni p. 458, rubriventris p. 459, spp. n. S. America, Brethes An. Mus. Buenos Aires 10.

Notoglossa pacifica sp. n. Washington p. 119, Rohwer Trans. Amer. Ent. Soc. 35.

Notogonia voeltzkowii sp. n. Madagaskar, Kohl Reise Ostafrika 2 p. 372.

N. kuchingensis sp. n. Borneo, Cameron Soc. entomol. 24 p. 73.—
N. subaequalis sp. n. Texas, Rohwer p. 370 Ent. News 20.

Nysson konowi p. 502, fraternus p. 503, castellanus p. 504, miegi p. 505, varelai p. 506, parietalis p. 507, monachus p. 508, alicantinus p. 509, dusmeti p. 510, pratensis p. 511, spp. n. Spain, MERCET Rev. Ac. Cien 7.

Odontomutilla bechuana sp. n. S. Africa, Peringuey Ann. S. Africa, Mus. 5 p. 408.—O. horrida, André Leiden Notes Mus. 31 p. 171.

Oxybelus polygoni p. 116, manni p. 117, denverensis p. 118, spp. n., U.S., ROHWER Trans. Amer. Ent. Soc. 35.—Oxybelus; chasseur de Glossines, au Soudan français, PICARD Paris C. R. soc. biol. 67 1909 pp. 360–362.

Paragenia gigas sp. n., argentifrons var. n. femoralis Sumatra and Java, ENDERLEIN Stettiner ent. Ztg. 71 pp. 42-63.

Paratiphia algonguina sp. n. New Jersey, Viereck Washington Proc. Ent. Soc. 11 p. 44.

Passaloecus monilicornis var. 1.. dahlbomi Saltdalen Norway, Schneider Tromso Mus. Aarsh. 29 1906 pp. 105-106.

†P. fasciatus sp. n. Colorado Tertiary p. 99, Rohwer Trans. Amer. Ent. Soc. 35 Pemphredon cockerelli sp. n. Colorado p. 103, Rohwer T.c.

Pepsis chrysothorax, thalia, argentina, sanctaannae, virgo, p. 233, incompleta, anisitsii, andina, jujuyensis, indistincta, holmbergi, p. 234, dimidiatipennis, quichu, flavilis, transversa, externa, ichesi, p. 235, calypso, juno, gallardoi, chloroptera, sappho, nitocris, vivida, p. 236, arechavaletai, roberti, lynchii, pygidialis, janira, culta, fluminensis, modesta, brasiliensis, p. 237, clarinervis, pallida, lahillei, tornowii, operosa, villosa, recta, dromeda, iheringi, p. 238, schrottkyi, concava, guaranitica, abrupta, com-parata, mixta, p. 239, appollonis, arneghinoi, echiverriai, prixii, pampeana, chacoana, caridei, p. 240, spegazzinii, miniata, itinerata, sulcata, laetabilis, patagonica, p. 241, bruchii, burmeisteri, vaga, euterpe, ephebus, fuscobasalis, cultrata, richteri, limbatella, p. 242, terebrans, neutra, troglodytes, polita, depressa, fasciculata, cordubensis, р. 243, spp. n., S. America, Brèтнея An. Mus. Buenos Aires 10.—Pepsis.; the Chilian species, BRETHES Revist. chilena 13 pp. 201-210.

Philanthus limatus sp. n. Ruwenzori, Bingham p. 180 Tr. zool. Soc. 19.

P. saxigenus sp. n. Colorado Tertiary, Rohwer p. 535 Amer. J. Sci. 28.

Photopsis seminanula p. 130, capricornis p. 131, spp. n., Colorado, Rohwer Trans. Amer. Ent. Soc. 35.

Pison aureopilosus sp. n. Borneo, Cameron Soc. entomol. 24 p. 73.

†P. oligocaenum sp. n. Baltischer Bernstein, Cockerell Königsberg Schr. physik. Ges. 50 p. 4.

Pisonopsis birkmanni sp. n. Texas p. 129, Rohwer Trans. Amer. Ent. Soc. 35.

Plesia nursei Simla p. 480, P. (Mesa) asmarensis Erythrea p. 481, spp. n. P. subpetiolatus and baluchistanensis, Cam. to Myzine p. 478, TURNER Ann. Nat. Hist. 3.—Plesia, vide Elis.

Poecilotiphia albomaculata Cam. to Myzine, Turner p. 479 Ann. Nat. Hist. 3.

Pompilus; habits, RABAUD Bul. sci. France-Belgique 43 pp. 171-182.— P. klaptoczii sp. n. Tripolis, Schulthess Reihberg Zool, Jahrb. Syst. 27 p. 443. —P. thrinax sp. n. Madagascar, Kohl Reise Ostafrika 2 p. 378.—P. lissonotus p. 180, properans, parvispinosus, p. 181, spp. n., Borneo, Cameron Entomologist 42.—P. vespuccioides, annuliventris, spp. n. S. America, Brèthes p. 460 An. Mus. Buenos Aires 10.—P. arechavaletai, platensis, p. 60, Uruguay, spp. n., Brèthes An. Mus. Buenos Aires 19 p. 60.

Psammotherma transvaalica sp. n. S. Africa, Peringuey Ann. S. Afric. Mus. 5 p. 385.

Pseudagenia enundans sp. n. Madagaskar, Kohl Reise Ostafrika 2 p. 376.

—P. hyboscelis sp. n. Sumatra, Enderlein Stettiner ent. Ztg 71 p. 63.

Pseudelaphroptera haarupi sp. n. Argentina, Turner p. 133 Ann. Nat. Hist. 3.

Reedia claraziana Sauss. = (M. mitis Burm.), André p. 177 An. Mus. Buenos Aires 10.

Rhagigaster mandibularis and unicolor distinguished, Turner p. 131 Ann. Nat. Hist. 3.

Rhopalomutilla tongaana sp. n. S. Africa, Peringuey Ann. S. Afric. Mus. 5 p. 386.

Rhopalum lucidum sp. n. Pennsylvania, ROHWER p. 324 Ent. News 20

Rhoptromutilla umbratica = (M. occulta Lynch), André p. 170 An. Mus. Buenos Aires 19.

Salius mimeticus sp. n. Sikkim, CAMBRON Soc. entomol. 24 p. 76.— S. hirticaudis sp. n. Borneo, CAMBR DN p. 182 Entomologist 42.—S. posticatus sp. n. Brasil, Brethes An. Mus. Buenos Aires 19 p. 59.

†S. senex p. 25, laminarum p. 26, spp. n., Tertiary Colorado, Rohwer Psyche 16.

Scaptodactyla heterogama Burm. = (laevissima Angré), André p. 208 An. Mus. Buenos Aires 10.

Sceliphron voeltzkowii sp. n. Ins. Pemba, Kohl Reise Ostafrika 2 p. 370.

Scolia; revision of Australian pp. 165-176, S. commixta sp. n. Port Darwin p. 170, frontalis st. n. obscuriceps p. 169; Turner Ann. Nat. Hist. 4.— S. haemorrhoidalis, in Süddeutschland, Reichenau D. ent. Zs. 1909 pp. 406-408 536,

Scotaena vetusta p. 340, duckei p. 341, spp. n., Minas Geraes, TURNER Ann. Nat. Hist. 4.

Sphecius antennatus var. n. impressus Pamir, Kokujev Rev. russ. ent. 9 p. 230.

Sphex umbrosus var. n. voeltzkowii, Kohl Reise Ostafrika 2 pp. 369-378.— S. platensis p. 146, striatubus p. 147, subexcisus p. 148, spp. n., Buenos Aires, Brèthes An. Mus. Buenos Aires ser. 3 10.—S. mendozanus sp. n. Mendoza, Brèthes An. Mus. Buenos Aires 19 p. 104.

Sphinctomutilla gen. n. p. 178 type M. melanocephala Perty, spinigena = (cerasina Burm. nec. Gerst.) p. 189, tucumana p. 191, spp. n. S. America, fronticornis var. n. glabriceps p. 189, ANDRÉ An. Mus. Buenos Aires 10.

Spilothynnus remotus sp. n. Minas Geraes, Turner p. 338 Ann. Nat. Hist. 4.

Stenomutilla desponsa, André Leiden Notes Mus. 31 p. 179.

Stigmus inordinatus universitatis subsp. n. Colorado, lucidus sp. n. Kansas, Rohwer p. 102 Trans. Amer. Ent. Soc. 35.

Stizus arechavaletai p. 63, spegazzinii p. 64, S. America, spp. n., Brethes An. Mus. Buenos Aires 19.

Tachynomia adusta, Aelurus pilosulus Sm. is the 3 of, Ae. vulpinus Sm. to Tachynomia, p. 136, T. megacephala sp. n. Cape York p. 137, Turner Ann. Nat. Hist. 3.

Tachysphex gracilicornis Metilla p. 194, saundersi p. 195, cabrerai p. 196, brevipennis p. 107, descendentis p. 108, Spain, spp. n., MERCET Bol. Soc. espan. 9.—T. instructus nom. n., selectus, peculator, p. 514, heliophilus, minutus, p. 515, ablatus, gujaraticus, p. 516, spp. n. India, Nurse Bombay J. Nat. Hist. Soc. 19.

Tachytes opulenta, astuta, spp. n., India, Nurse p. 513 T.c.—T. minor p. 127, minutus p. 128, spp. n., Texas, Rohwer Trans. Amer. Ent. Soc. 35.—T. basirufus p. 197, propinquus p. 198, birkmanni p. 199, dubitatus p. 202, calcaratiformis p. 204, obscuranus p. 205, spp. n., U.S., Rohwer Ent. News 20.

Tallium; the species and synonymy, ANDRÉ pp. 171-175 An. Mus. Buenos Aires 10. Telephoromyia tridentifera sp. n. Argentina, p. 131, Spilothynnus bitubertucatus to this genus p. 132, TURNER Ann. Nat. Hist. 3.

Thynnus (Zeleboria) monticolus Victoria p. 138, T. (Aeolothynnus) halophilus Cape York p. 139, T. pseudomelleus N.S.W. p. 140, atrocio p. 142, multistrigatus N.S.W. p. 143, brisbanensis Stradbrooke isld. p. 145, spp. n., notes on trisulcatus Sm., laevifrons Sm., p. 138, gravidus Westw., bidens Sm. p. 140, sabulosus and picticollis Turn. p. 144, ventralis var. n. desiccatus p. 146, Turner T.c.

Tiphia rufofemorata Sm. = (cassiope Cam.), p. 482, Tiphia and Scolia, the components p. 483, Turner Ann. Nat. Hist. 3.—T. punctifrons sp. n. Borneo, Cameron p. 175 Entomologist 42.

Trachypus brevipetiolatus p. 212, batrachostomus, coriani, p. 213, miles p. 214, Paraguay, spp. n., Schrottky An. Soc. Argent. 67.

Traumatomutilla graphica synonymy p. 197, contempta Bolivia p. 198, confluens Argentina p. 205, vulnerifera S. America p. 207, spp. n., ANDRÉ An. Mus. Buenos Aires 10.

Tricholabiodes livida sp. n. S. Afrika, André D. ent. Zs. 1909 Beih. p. 123, and Jena Denschr. 14 p. 72.— T. peringueyi Q, Peringuey Ann. S. Afric. Mus. 5 p. 385.

Trypoxylon cockerellae sp. n. Colorado p. 130, Rohwer Trans. Amer. Ent. Soc. 35.—T. subfrigidum p. 378, nigrellum p. 379, albopilosum planoenee subsp. n. p. 380, aureolum p. 381, relativum p. 382, spp. n., Texas, Rohwer Ent. News 20.—T. correntinum sp. n. Argentina, Brèthes An. Mus. Buenos Aires 19 p. 67.

Typhoctes guatemalensis sp. n. San Geronimo, Turner p. 485 Ann. Nat. Hist. 3.

Wesmaelinius; Composition, Schir-MER D. ent. Zs. 1909 pp. 378-380.

FORMICIDAE.

Die Ameisen. Ubers. a. d. Deutsch. v. V. D. Zelenskij unt. d. Red. v. V. A. Faussek (Russ.) St. Peterburg [Brockhaus u. Efron], [1909?] pp. 188, 86 Fig. i. T.).

Beiträge zur Monographie der Formiciden des paläarktischen Faunengebietes. Tl. VI Cardiocondyla, Solenopsis, EMERY D. ent. Zs. 1909 pp. 19-37. Part 7, Formica, t.e. pp. 179-204; Ponerinae and Myrmicinae pt., pp. 355-376 & 695-712.

Swedish insect fauna, Formicidae, Aurivillius Entomol. Tidskr. 29 1908 pp. 1-36.

Ants and their relations in Luxemburg; WASMANN Arch. Inst. Luxemb. 4 fasc. 3 and 4 114 pp. 5 pls.

The ants of Belguim tabulated, Bondroit pp. 479-500 Ann. Soc. ent. Belgique 53.

Verzeichnis der im Elsass beobachteten Ameisen, Scherdlin Intern. ent. Zs. 3 pp. 185-186 189-190.

Anatomy of thorax and histolysis of wing-muscles, *Lasius niger*, JANET Limoges 1907 149 pp. & 13 pls.

The problem of communal dependents; McCook Harper's Monthly Magazine 114 pp. 933-941 text fig.

Bilder aus dem Ameisenleben; VIEHMEYER (Naturwiss. Bibliothek Leipzig pp. VIII + 159.

Ant communities, popular work; McCook pp. xvii + 321, 1 pl.

Sklaverei und sozialen Parasitismus, WASMANN Natw. Wochenschr. Jena 24 pp. 401-407.

Ueber den Ursprung der dulotischen, parasitischen und myrmekophilen Ameisen. [Uebersetzung.], EMERY Biol. Centralbl. 29 pp. 352-362.

Übor den Ursprung des sozialen Parasitismus, der Sklaverei und der Myrmekophilie bei den Ameisen; WASMANN Biol. Centralbl. 29 pp. 587– 604 619–637 651–663 683–703.

Parasiten und Feinde in Transkaspien, KARAWAJEW Rev. russ. ent. 9 pp. 227-237.

Trophobiose bei den Ameisen; KNEISSL Zs. wiss. Insektenbiol. 5 pp. 76-82.

Fourmis arénicoles, signification du "psammophore"; Santschi Rev. suisse Zool. 17 pp. 449-458.

Gründung von Kolonien bei Ameisen; Biologie gemischter Kolonien (Böh-(n-11091 j) misch); Mrázek Čas. České Spol. Entomolog. 1908 pp. 73-77 139-147.

Sur les phénomènes qui caracterisent le déménagement chez la fourmi moissonneuse; Bouvier Paris C. R. Acad. sci. 149 pp. 649-654.

Symbiosis of ants with trees; Nature 21 p. 83.—Fiebrig Biol. Centrbl. 29 pp. 1-16 etc.

Pflanzen und Ameisen im tropischen Mexiko; Ross Natw. Wochenschr. 24 pp. 822-830.

La lutte contre les fourmis à Cuba; Serre Bul. Mus. Paris 1909 pp. 188-192.

Aenictus jacobsoni sp. n. p. 222, clavatus sundaicus subsp. n. p. 223, Java, Forel Leiden Notes Mus. 31,

Aphaenogaster rupestris sp. n. Elkantara, Forel p. 379 Bull. Soc. Vaud. 45.

Anergates atratulus, cthology, Wheeler J. Ent. Soc. New York 17 p. 180.—A. Gynandromorphe, Adlerz Ark. Zool. 5 No. 2 1908 p. 6.

Atta emilii var. n. ajax, Forel p. 58
Ann. Soc. ent. Belgique 53.—A.
intermedia sp. n. Guatemala p. 249,
mesonotalis var. n. crassispina, fracticornis sp. n. Paraguay p. 257, Forel
D. ent. Zs. 1909.—A. sexdens; Cecropia
peltata und ihr Verhältnis zu Azteca
alfari und anderen Insekten; mit
einer Notiz über Ameisen-Dornen bei
einer Notiz über Ameisen-Dornen bei
Acacia cavenia; Fiebrig Biol. Centralbl. 29 pp. 1-16 33-35 65-77 Taf.

Azteca alfaroi var. n. fumaticeps, ulei subsp. n. rossi, muelleri var. n. brunni, luderwaldti, fiebrigi, p. 261, Paraguay, spp. n., Forel D. ent. Zs. 1909.

Belonopelta pergandei sp. n. Guate-mala, Forel D. ent. Zs. 1909 p. 242.

Bothriomyrmex wroughtoni var. n. javana Krakatau, Forel Leiden Notes Mus. 31 p. 229.

Brachymyrmex heeri var. n. aphidicola, Forel D. ent. Zs. 1909 pp. 239-269.

Camponotus (Colobopsis) severini sp. n. Labuan, C. gilviceps synonymy, Forel. p. 55 Ann. Soc. ent. Belgique 53.—C. manidis sp. n. foraminosus var. 11. sorpta p. 62, wellmani sp. n. Congo p. 66, foraminosus var. n. argentopuben s

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Carebara vidua junodi, FOREL p. 53 Ann. Soc. ent. Belgique 53.

Cerapachys toltecus sp. n. Guatemala, Forel D. ent. Zs. 1909 p. 247.— C. (Syscia) silvestrii sp. n. Hawaiian Islands, Wheeler Portici Boll. Lab. 2001. 3 p. 269-272.

Cremastogaster wellmani sp. n. Benguela p. 64, africana varr. n. winkleri and laurenti p. 69 and zeta p. 70, kohli sp. n. Congo p. 71, Forel Ann. Soc. ent. Belgique 53.—C. auberti varr. n. vogti and iberica p. 103, laestrygon Em. distinct p. 104, Forel T. c.—C. subnuda var. n. sundaica Java, Forel Leiden Notes Mus. 31 p. 225.—C. brevispinosa var. n. tumulicola, Forel D. ent. Zs. 1909 pp. 239-269.—C. subnuda var. n. formosæ, Wheeler Bull. Amer. Mus. 26 p. 336.

Dichthadia; nov., Africa; Stitz Zool. Anz. p. 231.

Diplomorium lujae sp. n. Congo, FOREL p. 72 Ann. Soc. ent. Belgique 53.

Dolichoderus jacobsoni sp. n. Semarang, Forel Leiden Notes Mus. 31 p. 226.

Dorylus stanleyi sp. n. (?=emeryi) Congo, attenuatus var. n. umbratipennis, p. 52, emeryi subsp. n. opaca p. 58, FOREL Ann. Soc. ent. Belgique 53.

Eciton pseudops p. 254, fiebrigi p. 255, spp. n. Paraguay, pilosum var. n. angustius, Forel D. ent. Zs. 1099.

Ecphorella subg. n. vide Tapinoma.

Ectatomma fiebrigi sp. n. Paraguay p. 253, edentatum var. n. iris, muticum var. n. lobulifera, tuberculatum subsp. n. aerista, strigosum var. n. confusa, Forel D. ent. Zs. 1909.

Euponera darwini var. n. africana, Forel p. 51 Ann. Soc. ent. Belgique 53.—E. pergandei sp. n. Guatemala, Forel D. ent. Zs. 1909 p. 245.

Formica (Proformica) emmae sp. n. El Kantara, Forel p. 381 Bull. Soc. Vaud. 45.—F. adamsi Michigan p. 84 with var. n. alpina p. 85, comata p. 85, crinita p. 87, Colorado, spp. n., Wheeler J. Ent. Soc. New York 17.—F. rufa, ethology, Wheeler J. Ent. Soc. New York 17 p. 172.—F. rufa varr. n. nigricans & dusmeti, essecta varr. n. etruscand foreli, korbi sp. n. Anatolia p. 202, Emery D. ent. Zs. 1909.—F. sanguinea var. n. semirubra, Forel p. 105 Ann. Soc. ent. Belgique 53.—F. sanguinea Koloniegründung, Viehmeyer Zs. wiss. Insektenbiol. 5 p. 353–356 & 390–394, slave-raid, gynandromorphs, Donistiore pp. 463–466 Zoologist 1909.

Formicoxenus nitidulus, Arnold p. 278 Ent. Mag. 45.

Harpegnathus cruentatus var. n. taprobanae, FOREL p. 392 Bull. Soc. Vaud. 45.

Iridomyrmex smithi sp. n. Philippines, Wheeler Bull. Amer. Mus. 26 p. 341.—I. humilis, life-history pp. 174-192 pls. 5-7, tables i-iv, Newell J. Econ. Ent. 2.

Lasius; gemischte Kolonien, Wasmann Zool. Anz. 35 pp. 129-141.—
L. emarginatus, singolare nido, Lefri Roma Boll. Soc. zool. ital. 10 pp. 337-339 1 fig.—L. niger var. n. grandis, Forel p. 104 Ann. Soc. ent. Belgique 53.—L. niger americanus, natural history, Forbes Rep. Ent. Illinois 25 pp. 27-40 pl. i; Prothorakalflugel, Wanach Ent. Rdsch. 26 p. 107; accepts q umbratus, Crawley pp. 94-99 Ent. Mag. 45.—L. (Acanthomyops) occidentalis sp. n. Colorado, Wheeler J. Ent. Soc. New York 17 p. 83.

Leptanilla exigua sp. n. Afrique du Nord, Santschi Paris Ann. soc. ent. 77 p. 519.

Leptogenys consanguinea sp. n. Mexico, Wheeler Portici Boll. Lab. zool. 3 pp. 228-238.

Leptothorax tuberum subsp. n. tyndalei p. 373, nigrita var. n. rupestris, tuberum subsp. n. spinosus and var. n. nivalis, p. 377, FOREL Bull. Soc. Vaud. 45.-L. bugnioni p. 463, L. b. var. n. marocana Maroc p. 463, L. b. st. pupseli st. n. Tunisie p. 464, cabrerae Canaries p. 465, L. c. st. mauritanicus st. n. Maroc p. 466, hesperius sp. n. Canaries p. 467, L. c. st. inermis sp. n. Maroc p. 468, formosus sp. n. Maroc p. 469, risii st. globulinodis st. n. Canaries p. 471, rottenbergi p. 472, sardoa var. n., balcanica var. n. Bulgarie, p. 474, st. semiruber p. 475, annibalis st. n. Tunisie p. 476, colorata var. n. Kairouan p. 477, transitoria var. n. Tunisie p. 478, ernesti st. n. Algérie p. 478, scabriosus st. n. Algérie p. 479, irregularis var. n. Algérie, bucheti sp. n. p. 480, Santschi Rev. Suisse Zool. 17.—L. canescens p. 526, arenarius p. 527, spp. n. Afrique du Nord, SANTSCHI Paris Ann. soc. ent. 77.-L. melanderi Idaho p. 81, furunculus Colorado p. 82, spp. n., WHEELER J. Ent. Soc. New York 17.

Megalomyrmex silvestrii sp. n. Mexico, Wheeler Portici Boll. Lab. zool. 3 p. 228-238.

Messor barbarus var. n. dentiscapa, lobicornis var. n. bathensis, Forel p. 371 Bull. Soc. Vaud. 45.—M. barbarus meridionalis Aschabad, Karawajew Rev. russ. ent. 9 p. 270.

Monomorium sp. n.? Jelotan, KARAWAJEW Rev. russ. ent. 9 p. 270.—M. minutum liliukalauii javana var. n. Krakatau, Forel Leiden Notes Mus. 31 p. 225; ethology, WHEELER J. Ent. Soc. New York 17 p. 183.

Myrmecocystus albicans var. n. arenaria p. 384, viaticus var. n. isis p. 385, Forel Bull. Soc. Vaud. 45.—M. albicans subsp. n. cinnamomeus SyrDarjinskaja, Karawajew Rev. russ. ent. 9 p. 269.—M. lugubris sp. n. California, Wheeler J. Ent. Soc. New York 17, p. 98.

Myrmelachista nodigera subsp. n. pallida, bambusarum var. n. arborea, Forel D. ent. Zs. 1909 pp. 239-269.

Myrmica scabrinodis var. n. aloba, Forel p. 103 Ann. Soc. ent. Belgique 53.—M. rubra ruginodis Fergana, Karawajew Rev. russ. ent. 9 p. 270.—M. bradleyi sp. n. California, Wheeler J. Ent. Soc. New York 17 p. 77.

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Myrmicaria eumenoides var. n. congolensis, Forel p. 59 Ann. Soc. ent. Belgique 53.

Neoponera carinulata subsp. n. gibbinota, Forel D. ent. Zs. 1909 pp. 239-269.

Oxyopomyrmex insularis p. 523, emeryi p. 524, spp. n. Afrique du Nord, Santschi Paris Ann. soc. ent. 77.

Pheidole pallidula var. n. recticeps, Forel p. 391 Bull. Soc. Vaud. 45.— P. radoszkowskii var. n. discursans, perversa subsp. n. richteri, Forel D. ent. Zs. 1909.—P. sauteri sp. n. Formoss Wheeler Bull. Amer. Mus. 26 p. 334.— P. confoedusta sp. n. Mexico, Wheeler Portici Boll. Lab. zool. 3 p. 228–238.

Plagiolepis simulans sp. n. Afrique du Nord, Santschi Paris Ann. soc. ent. 77 p. 531.

Pogonomyrmex (Ephebomyrmex) pima Arizona p. 79, townsendi Mexico p. 80, spp. n., Wheeler J. Ent. Soc. New York 17.—P. badius, Turner Biol. Bull. 17 pp. 161-169 figs. 1-8.

Polyergus rufescens, habits, Emery Rend. Acc. Bologna 13 pp. 31-35.

Polyrhachis; account of nests, Forel pp. 402-407 Bull. Soc. Vaud. 45.—P. wellmani sp. n. Benguela, Forel p. 68 Ann. Soc. ent. Belgique 53.—P. jacobsoni sp. n. Java, Forel Leiden Notes Mus. 31 p. 230.—P. diana sp. n. Philippines, p. 343, latona sp. n. Formosa, Wheeler Bull. Amer. Mus. 26 p. 337.

Ponera ragusai var. n. santschii Algeria and Syria, EMERY D. ent. Zs. 1909 p. 371.—P. parva sp. n. Guatemala, distinguenda subsp. n. vana, inexorata subsp. n. fallax, Forel D. ent. Zs. 1909 p. 244.—P. nivariana sp. n. Afrique du Nord, Santschi Paris Ann. soc. ent. 77 p. 518.

Prenolepis dispar sp. n. Guatemala, fulva var. n. fumata, vividula var. n. kunzleri, FOREL. ent. Zs. 1909 p. 251.—P. (Nylanderia) jaegerskioeldi var. n. boucardi, SANTSCHI Paris Ann. soc. ent. 77 p. 533.

Prionopelta mayri sp. n. Sta. Catharina p. 239, punctulata subsp. n. antillana, marthae Venezuela p. 240, modesta Guatemala p. 241, spp. n., Forel D. ent. Zs. 1909.

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Pseudoponera ochracea subsp. n. sicula Sicilia, Emery D. ent. Zs. 1909 p. 365.

Rhizomyrma exsanguis sp. n. Mexico, Wheeler Portici Boll. Lab. Zool. 3 p. 228-238.

Rhoptromyrmex opacus (Emery) sp. n. Congo with var. esta, Forel p. 59 Ann. Soc. ent. Belgique 53.

Sima allaborans var. n. longinoda, Forel p. 395 Bull. Soc. Vaud. 45.

Solenopsis seychellensis sp. n. Seychelles, Forel p. 55 Ann. Soc. ent. Belgique 53.—S. decipiens var. n. abjectior, pylades var. n. richteri, Forel D. ent. Zs. 1909.

Strongylognathus huberi varr. n. gallica Marseille & foreli Algeria, subsp. n. ruzskyi Ural, EMERY D. ent. Zs. 1909 p. 709; S. huberi subsp. n. alpinus Zermatt, ethology, WHEELER J. Ent. Soc. New York 17 p. 178 fig. 1.

Tapinoma (Ecphorella subg. n.) p. 65, wellmani sp. n. Congo p. 66, Forel Ann. Soc. ent. Belgique 53.

Technomyrmex bicolor subsp. n. textor Semarang, Forel Leiden Notes Mus. 31 p. 228.

Tetramorium camerunense var. n. waelbroeki, Forel p. 53 Ann. Soc. ent. Belgique 53.—T. quineense, Verhalten Stoffen pflanzlicher Herkunft gegenüber, Verschaffelt Pharm. Weekbl. Amsterdam 46 pp. 1002-1009.—T. caespitum varr. n. hispanica Hispania, debilis Aegyptus, syriaca Syria, turcomanica Turkestan, flavidula Asia Minor & lucidula Syria, Emery D. ent. Zs. 1909 pp. 701-704.

Tranopelta gilva var. n. brunnea, Forel D. ent. Zs. 1909 pp. 239-269.

CHRYSIDAE.

Chrysididae klugianae, Mocsáry Ann. Mus. Hung. 7 pp. 398-408.

Cephalochrysis subgen. n. pro Chrysis sabulosa, Semenov Rev. russ. ent. 9 p. 224.

Chrysis rebecca sp. n. Syria, MORICE p. 467 Tr. ent. Soc. London 1909.—C. tenelluta, p. 218, ear p. 219, baeckmanniana p. 221, Turkestan occid. spp. n., sybarita subsp. n. jaxartis Turkestan occid. p. 222, valerii p. 223–224 sp. n., sabulosa descriptio p. 227 Tur-

kestan occid., ellampoides Transcaspia p. 224, idolon deserta Kirgisorum p. 225, spp. n., Semenov Rev. russ. ent. 9.—C. (Tetrachrysis) caerulans nanula subsp. n., florissanticola p. 88, nokomis p. 89, decepta p. 90, amala, submontana, p. 91, spp. n., Colorado, Rohwer Psyche 16.—†C. miocenica sp. n. Colorado Tertiary, Rohwer p. 534 Amer. J. Sci. 28.

Ellampus albolimbatus sp. n. Amazons, Ducke Rev. ent. Caen 27 p. 52.—E. joannisi sp. n. Nankin, Buysson Rev. ent. Caen 27 p. 207.

Gonochrysis crosi sp. n. Algeria, peninsularis var. n. turcica, Buysson p. 208 T.c.

Hedychridium femoratum var. n. miricolor, Morice p. 466 T. ent. Soc. London 1909.—H. polygoni sp. n. Colorado p. 87, Rohwer Psyche 16.—H. argentinum sp. n. Mendoza, Buysson p. 195 Ent. Medd. 3.

Hedychrum jenseni p. 196, discoidale p. 197, spp. n. Mcndoza, Buysson T.c.

Hexachrysis bhoutanensis Bhutan, subordinata Congo, spp. n., Buysson Rev. ent. Caen 27 p. 212.

Holochrysis interfata sp. n. California, Buysson p. 208 T.c.

Parnopes grandior varr. n. intermedia and iris Deutschl., MÜLLER D. cnt. Zs. 1909 p. 732.

Pseudochrysis purpurata sulspp. n. irradians Transcaspia p. 213, orientis Dzhungaria p. 214, vespera Persia orient. p. 214, herculeana Turkestan occid. p. 215, zarudniana Persia orient. p. 216, spp. n., Semenov Rev. russ. ent. 9.

Spinolia herodiana sp. n. Jericho, Morice p. 467 Tr. ent. Soc. London 1909.

Tetrachrysis benardi p. 209, fouqueti p. 210, Tonkin, galloisi Japan p. 210, cavaleriei China p. 211, spp. n., Buysson Rev. ent. Caen 27.

ICHNEUMONIDAE.

Account, with synonymy, of the Ichneumonidae of the Banksian collection, Morley pp. 131-137 Entomologist 42.

Larvae of *Hymenoptera* parasitien; Weissenberg pp. 1–28 SitzBer. Ges. natf. Fr. 1909.

The Hymenoptera parasitic on *Rhynchota*, Morley Zoologist 1909 pp. 463 etc., and on *Coccidae*, Entomologist 42.

Acanthojoppa nigrinerva sp. n. Borneo, CAMERON D ent. Zs. 1909 p. 529.

Agathis versicolor sp. n. Chaeo, Brèthes An. Mus. Buenos Aires 19 p. 54.

Agenora gen. n. Pimplinae, hirticeps, sp. n. India, Cameron Bombay J. Nat. Hist. Soc. 19 p. 722.

Alegina rufipes sp. n. S. America, Brèthes An. Mus. Buenos Aires 19 p. 53.

Alomya debellator varr. n. silvicola and minor, Ulbricht Krefeld Mitt. Ver. Natk. 1909 pp. 1-40.

Amblyteles wormatiensis sp. n. Doutschland, Habermehl D. ent. Zs. 1909 p. 563.—A. glaucatorius var. n. nigroscutellatus, Ulbricht Krefeld Mitt. Ver. Natk. 1909 pp. 1-40.—A. nitidiventris p. 14, atrox p. 14-15, obater p. 15, Tibet, ornativentris Kukunor p. 16, hirtus Tibet p. 16-17, subhirtus China p. 17-18, deliquus Tibet p. 18, mundus Tian-schan p. 19, spp. n., Kokujev St. Pet. Ann. mus. 2001. 14.

Amorphota tricolorata sp. n. Argentina, CAMERON Trans. Amer. Ent. Soc. 35 p. 443.—A. testaceipes sp. n. S. America, Brèthes. An. Mus. Buenos Aires 19 p. 54.

Anisobas pulcher Turkestan sinens. sp. n., Kokujev St. Peterburg Ann. mus. zool. Ac. se. 14 p. 27-28.

Ateleonotus gen. n. Mesostenini p. 437, ruficeps sp. n. Argentina p. 438, CAMERON Trans. Amer. Ent. Soc. 35.

Atractodes pernitens Zaidam sp. n., Kokujev St. Peterburg Ann. mus. zool. Ac. sc. 14 p. 46-47.

Atrometus albopilosellus sp. n. Argentina, CAMERON Trans. Amer. Ent. Soc. 35 p. 441.

Aucklandella gen. n. p. 75 Ichneumoninae, flavomaculata pl. iii fig. 7, nigromaculata, p. 76, flavolineata p. 77, spp. n., Auckland Isl., Cameron Subantarct. Isl. New Zealand 1. Barytarbes albotibialis sp. n. Deutschland, Habermehl D. ent. Zs. 1909 p. 569.

Bassus indicus sp. n. Simla, CAMERON Bombay J. Nat. Hist. Soc. 19 p. 728.— B. laetatorius from Syrphus balteatus, ANDREWS p. 17 Ent. Mag. 45.

Bathymetis morulus Tibet sp. n., Kokujev St. Peterburg Ann. mus. zool. 14 pp. 45-46.

Buodias annulipes sp. n. Borneo, Cameron D. ent. Zs. 1909 p. 532.

Callicryptus pulchrifasciatus sp. n. Argentina, Cameron Trans. Amer. Ent. Soc. 35 p. 437.

Charops malayanus sp. n. Borneo, Cameron D. ent. Zs. 1909 p. 533.

Cryptus solitarius sp. n. Deutschl., HABERMEHL D. ent. Zs. 1909 p. 629.—C. piliceps varr. n. clavipennis Turkestan sinens. p. 31, unicarinatus p. 31-32, tibetanus p. 32-33, caesitius p. 33 Tibet, evidens, p. 34, adelungi p. 34-35, eurinus p. 35-36, Zaidam, spp. n., Kokujev St. Peterburg Ann. mus. zool. 14.—C. (Ganbrus) burkei sp. n. California, Vierecck p. 291 Ent. News 20.

Cyphanza gen. n. Tryphoninae, nigra, sp. n. India, Cameron Bombay J. Nat. Hist. Soc. 19 p. 723.

Dicaelotus minutulus Zaidam sp. n., Kokujev St. Peterburg Ann. mus. zool. 14 pp. 28-29.

Dinotomus ruber sp. n. Paraguay, SCHROTTKY An. Soc. Argent. 67 p. 211.

Distantella pilosella sp. n. Simla, Cameron Bombay J. Nat. Hist. Soc. 19 p. 729.

Echthromorpha striata p. 306 Tahiti sp. n., notulatoria var. n. insulana p. 313 Sumatra, variegata var. n. occidentalis p. 320 W. Afrika; conopleura p. 321 Brasilia, nigricans p. 326 Madagascar, semperi p. 329 Palau-Inseln, immaculata p. 331 Fidschi-Inseln, maxima p. 334, Amboina, fastigata p. 336, Batjan, gnathon p. 337, tridens p. 339, Celebes, spp. n., Krieger Berlin Mitt. Zool. Mus. 4.

Ephialtes extensor (? = manifestator Marsh.), habits, Morley J. Linn. Soc. 30 p. 271.

Erromenus spectabilis sp. n. Deutschl., HABERMEHL D. ent. Zs. 1909 p. 570. Euceros vierecki sp. n. Pennsylvania p. 245 fig., Hertzog Ent. News 20.

Eugnomus flavomuculatus sp. n. Argentina, Cameron Trans. Amer. Ent. Soc. 35 p. 440.

Exolytus areolaris, longicornis, spp. n. Deutschl., Habermehl D. ent. Zs. 1909 p. 636-637.

Fintona gen. n. Tryphoninae, nigripalpis, sp. n. Simla, Cameron Bombay J. Nat. Hist. Soc. 19 p. 726.

Goniocryptus indignus Zaidam sp. n., Kokujev St. Peterburg Ann. mus. zool. 14 p. 36.

Haristaeus gen. n. Campoplegini p. 442, nigrifrons sp. n. Argentina, p. 442, Cameron Trans. Amer. Ent. Soc. 36.

Hemiteles pauper, variolosus, spp. n. Deutschl., Habermehl D. ent. Zs. 1909 p. 634-635.—H. ineditus Tibet sp. n., Kokujev St. Peterburg Ann. mus. zool. 14 pp. 39-40.

Henicospilus przewalskii sp. n. Turkestania orient., Kokujev Rev. russ. ent. 9 p. 247.

Heresiarchoides gen. n., cerasinus sp. n. Buenos Aires, Brèthes An. Mus. Buenos Aires 19 p. 51.—H. similis sp. n. Mendoza, Brèthes p. 101 T.c.

Hoplismenus simulator Tibet sp. n., Kokujev St. Pet. Ann. mus. zool. 14 p. 12.

Hygrocryptus puhlmanni sp. n. Deutschl., Ulbricht D. ent. Zs. 1909 p. 783.

Hymenobosmina trichoptilus sp. n. Ceylon, Cameron Spolia Zeylan. 6 p. 40.

Ichneumon fuliginosus sp. n. Schweiz., HABERMEHL D. ent. Zs. 1909 p. 563.—
I. siremps Nan-schan pp. 19-20, eremita Tian-schan pp. 20-21, pulchralis Turkestan sin. pp. 21-22, spp. nn., bilunulatus var. n. limpidipennis Zaidam p. 22, adelungi p. 22, kozlovi p. 23, tibetanus p. 24, furiosus pp. 24-25, mandarinus p. 25, Tibet, zaidamensis Zaidam p. 26, contemptus Tibet p. 26-27 spp. n., Kokujev St. Pet. Ann. mus. 2001. 14.

Ileanta cariniscutis sp. n. Borneo, Cameron D. ent. Zs. 1909 p. 529.

Inoresa gen. n. Tryphoninae, pilosa, sp. n. India, Cameron Bombay J. Nat. Hist. Soc. 19 p. 724. Kaltenbachia castaniventris sp. n. Deutschl., Habermehl D. ent. Zs. 1909 p. 630.

Lamprocryptus gen. n. near Cyanocryptus p. 435, type Cryptus kinbergi Holmgren p. 436, CAMERON Trans. Amer. Ent. Soc. 35.

Letosha gen. n. Tryphoninae p. 724, longicoxis sp. n. India p. 725, CAMERON Bombay J. Nat. Hist. Soc. 19.

Lausoba gen. n. near Stiboscopus p. 438, forticeps sp. n. Argentina p. 439, CAMERON Trans. Amer. Ent. Soc. 35.

Lissonota sulphurifera ab. n. griseofasciata, Ulbricht Krefeld Mitt. Ver. Natk. 1909 pp. 1-40.

Merolides gen. n. Merolidini trib. nov., arechavaletai sp. n. Brasil, Brèthes An. Mus. Buenos Aires 19 p. 50.

Mesostenus kozlovi pp. 29-30, roborovskii pp. 30-31 Tian-schan, spp. n., Kokujev St. Peterburg Ann. mus. zool. 14.

Microcryptus exiguus sp. n. Deutschl., HABERMEHL D. ent. Zs. 1909 p. 632.

Monoblastus nigrinus sp. n. Deutschl., Habermehl p. 572 T.c.—M. orientalis, sp. n. Simla, Cameron Bombay J. Nat. Hist. Soc. 19 p. 727.

Ophion semipullatus sp. n. Buchara, Kokujev Rev. russ. ent. 9 p. 246.

Otlophorus nobilis sp. n. Deutschland, HABERMEHL D. ent. Zs. 1909 p. 571.

Pauroclenus gen. n. Tryphoninae p. 726, pallipes sp. n. Simla p. 727, Cameron Bombay J. Nat. Hist. Soc. 19.

Pezomachus pauxillus Tibet p. 37-38, piger Zaidam p. 38-39, spp. n., Kokujev St. Peterburg Ann. mus. zool. 14.

Phaeogenes tristator signator, spp. n. Deutschland, Habermehl D. ent. Zs. 1909 p. 564-565.

Phygadeuon flavocinctus sp. n. Deutschl., Habermehl p. 633 T.c.—P. brutus Tibet p. 40-41, morio Nan-schan p. 41-42, kozlovi Tibet p. 42-43, proruptor p. 43-44, optatus p. 44-45, Zaidam, spp. n., Kokujev Št. Peterburg Ann. mus. zool. 14.

Pimpla instigator var, n. scutellaris, rufata var. n. pectoralis, terebrans var. n. taschenbergi, detrita var. n. melanopyga, brevicornis var. n. diversipes, Ulbricht Krefeld Mitt. Ver. Natk. 1909 pp. 1-40.

—P. erythropus, P. (Epiurus) bruneifrons, California, spp. n., Viereck p.
291 Ent. News 20.—P. pictipes 9,
Habermehl. D. ent. Zs. 1909 p. 638.—
P. oculatoria, the supposed larva
figured by Morley, Collin p. 97 Entomologist 42.

Plesiophthalmus melanocephalus sp. n. Schweiz, Habermehl D. cnt. Zs. 1909 p. 566.

Polyblastus tener sp. n. Deutschl., HABERMEHL p. 627 T.c.

Porizon? fleutiauxi sp. n. Nouméa, Vachal Rev. ent. Caen 27 p. 25.

Proboloides sollicitorius F. = (glabratus Morl.) and deceptus Sm. = (maculatus Morl.), Morley p. 119 Entomologist 42.

Pseudichneumon gen. n. primarius Tibet sp. n., Kokujev St. Pet. Ann. mus. zool. 14 p. 12-13.

Spilocryptus egregius Mongolia sp. n., Kokujev St. Peterburg Ann. mus. zool. 14 pp. 36-37.

Sussaba gen. n. Tryphoninae, bicarinata sp. n. India, CAMERON Bombay J. Nat. Hist. Soc. 19 p. 728.

Thymebatis gen. n. near Plectocryptus, bicolor sp. n. S. America, Brèthes An. Mus. Buenos Aires 19 p. 52.

Trichomma occisor sp. n. Deutschland, HABERMEHL D. ent. Zs. 1909 p. 568.

Vagenatha spinicollis, acutispina, spp. n. Borneo, Cameron D. ent. Zs. 1909 p. 531.

Vanhornia gen. n. of fam. n. Vanhorniidae, eucnemidarum sp. n. Maryland, Crawford p. 63-64 pl. v Proc. Ent. Soc. Washington 11.

BRACONIDAE.

Allotria victrix Parasit von Aphidius (Russ.), Cholodkovsky N. Trd. b. entom. učen. kom. Gl. Upr. Zeml. St. Peterburg 8 1 p. 15.

Apanteles paludicolae, platyptiliae, stegenodactylae, bisulcata, leptoura, p. 43, Ceylon, spp. n., Cameron Spolia Zeylan 6.—A. opsiphanis sp. n. Paraguay, Schrotky An. Soc. Argent. 67 p. 211.—A. aucklandensis sp. n. Auckland isld., Cameron Subantarct. Isl. New Zealand 1 p. 77.

Aphidius lonicerae, ervi, Parasiten von Siphonophora caraganae u. pisi (Russ.), Cholodkovsky Trd. b. entom. učen. kom. Gl. Upr. Zeml. St. Peterburg 8 1 p. 15.

Bracon lissaspis, lissosomus, spp. n. Borneo, Cameron Soc. entomol. 24 p. 114.

Cardiochiles saltator Necs = (Ditherus ruficollis Cam.), Morley p. 96 Entomologist 42.

Chelonus carpocapsae sp. n. Michigan, VIERECK Washington Proc. Ent. Soc. 11 p. 43.

Cosmophorus hypothenemi sp. n. from Hypothenemus, Brues Bull. Wisc. Soc. 6 p. 162.

Ephedrus plagiator Parasit von Siphonophora caraganae (Russ.); Сногоркоузку Trd. b. entom. učen. Kom. Gl. Upr. Zeml. St. Peterburg 8 p. 15.

Ettchellsia gen. n., Braconidae aberrant, piliceps, sp. n. Borneo, Cameron D. ent. Zs. 1909 p. 208.

Euphorus bistigmaticus sp. n. England, Morley p. 212 Ent. Mag. 45.

Exothecus luridiceps sp. n. Nouvelle Calédonie, VACHAL Rev. ent. Caen 27 p. 25.

Helorimorpha fisheri sp. n. Maryland, Viereck Ent. News 20 p. 290.

Iphiaulax contemptus p. 134, obesculus, varireticulata, saitis, p. 138, lynceus, ingratellus, p. 148, spp. n. Borneo, Cameron Soc. ent. 24.—I. rufithorax sp. n. Ruwenzori, Bingham p. 179 Tr. 200l. Soc. 19.—I. versicolor p. 102, striatulus p. 103, Mendoza, spp. n., Brethes An. Mus. Buenos Aires 19.—I. lynchii, weyenbergii, p. 444, holmbergii, adornatus, p. 445, brethesii p. 446, spp. n., Argentina, Cameron Trans. Amer. Ent. Soc. 35.

Ischnagathis gen. n. near Megathis, petiolata sp. n. Borneo, Cameron Soc. entomol. 24 pp. 148-149.

Liobracon ruficornis sp. n. Argentina, CAMERON Tr. Amer. ent. Soc. 35 p. 447.

Lysiphlebus crawfordi sp. n. Arizona p. 135, ROHWER Trans. Amer. Ent. Soc. 35.—L. sp. parasite of Toxoptera graminum, habits of larva, Kelly Proc. Ent. Soc. Washington 11 pp. 64-66.

Meteorus spilopterus, striaticeps, spp. n. Borneo, Cameron Soc. entomol. Steglitz 24 pp. 107-108.

Microplitis bimaculatus sp. n. Borneo, CAMERON p. 133 T.c.

Proteropoides gen. n. near Proterops p. 42, hertzogi sp. n. Pennsylvania p. 42 f. 1, VIERECK Washington Proc. Ent. Soc. 11.

Rhogas nigriceps sp. n. S. America, Brèthes An. Mus. Buenos Aires 19 p. 55.

Rhysallus rubriceps, striatulus, spp. n. Borneo, Cameron Soc. entomol. Steglitz 24 p. 114.

Spilomma gen. n. Pachylommatinae p. 211, falconivibrans sp. n. England p. 212, Morley Ent. Mag. 45.

Stictometeorus gen. n. near Meteorus, rufus sp. n. S.-Afrika, Cameron Soc. entomol. 24 p. 9.

EVANIIDAE.

Brachygaster conjungens sp. n. Formosa, Enderlein Stettiner ent. Ztg. 70 p. 257.

Chalcidopterella gen. n. near Evaniellus, Enderlein p. 262 T.c.

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Foenus visaliae sp. n. California, Bradley D. ent. Zs. 1909 p. 40.

Rhydinofoenus gen. n., kaweahensis sp. n. California, Bradley p. 39 T.c.

Semaeomya minutissima p. 259, catharinensis p. 260, Brasilia, spp. n., Ender. Lein Stettiner ent. Ztg. 70.

MEGALYRIDAE, STEPHANIDAE.

The genera of Stephanidae and lists of the species, Kieffer Gen. Ins. fasc. 77 10 pp. & 1 pl.

Megalyra caledonica sp. n. Nouvelle Calédonie, Vachal Rev. ent. Caen 27 p. 24.

Stephanus serrator bei Wien, FULMEK Wien Mitt. Natw. Ver. Univ. 7 p. 149.

TRIGONALIDAE.

Lebensweise der Trigonaloiden, Brschoff Berliner ent. Zs. 54 pp. 76-80.

CHALOIDIDAE.

The genera of *Chalcididae* and *My-maridae*, with lists of the species, SCHMIEDEKNECHT Gen. ins. **97** 550 pp. & 8 pls.

Seed-infesting Chalcididae life-histories etc.; Crosby Bull. N. York exp. Stat. 265 pp. 67–98 pls. i & ii.

Anagyrus nubilipennis sp. n. Illinois on Eulecanium nigrofasciatum, GIRAULT Psyche 16 p. 76.

Ancylotropus gen. n. Eucharinae, cariniscutis sp. n. Borneo, CAMERON p. 229 Entomologist 42.

Aphelinus varicornis sp. n. Illinois, GIRAULT Psyche 16 p. 29.—A. diaspidis How. pl. viii f. 1 & p. 452, SCHMIEDE-KNECHT Gen. ins. 97.—Aphelinus; ponte et l'intérêt individuel dans les actes liés à la conservation de l'espèce, MARCHAL Paris C. R. Acad. sci. 148 pp. 1223-1225.

Aphycus stomachosus sp. n. Illinois on Eulecanium nigrofasciatum, GIRAULT Psyche 16 p. 77.

Archenomus orientalis, sp. n. Giappone, Silvestri Rend. Acc. Lincei 18 1° Sem. p. 563.—A. bicolor parasite des Aspidiotus, Marchal Paris Bul. soc. ent. 1909 p. 144.

Artas koebelei How. pl. viii f. 8 & p. 461, Schmiedennecht Gen ins. 97.

Asaphes rufipes sp. n. Massachusetts, Brues Bull. Wisc. Soc. 6 p. 160.

Aspidiotiphagus citrinus Craw. pl. viii f. 4 & p. 457, Schmiedeknecht Gen. ins. 97.

Atoposoma variegatum Masi pl. viii f. 5 & p. 397, Schmiedeknecht T.c.

Aximogastra bahiae Ashm. pl. ii f. 10 & p. 138, Sohmiedeknecht T.c.

Azotus capensis How. pl. vii f. 6 & p. 455, Schmiedeknecht T.c.

Bephratoides gen. n. p. 158 near Bephrata, maculatus sp. n. p. 158 fig., Texas, Brues Bull. Wisc. Soc. 6.

Bruchophagus funebris, Folsom pp. 53-61 figs. 1-4 Rep. Ent. Illinois 25.

Camptoptera; monographic catalogue, pulla sp. n. Illinois p. 27 f. 2, GIRAULT pp. 22-28 Ann. Ent. Soc. Amer. 2.

Casca chinensis How. pl. viii f. 6 & p. 461, SCHMIEDEKNECHT Gen. ins. 97.

Cea pulicaris Walk. pl. iii f. 6 & p. 158, Schmiedeknecht T.c.

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Chrysocharis aeneus sp. n. from cocoon of Crabro, Brues Bull. Wiss. Soc. 6 p. 161.

Closterocerus formosus Westw. pl. viii f. 2 & p. 428, Schmiedernecht Gen. ins. 97.

Coccophagus niger sp. n. Italy, Masi Portici Boll. Scuola agric. 4 p. 35.—C. cinguliventris sp. n. Illinois on Eulecanium nigrofasciatum p. 79, longifasciatus p. 80, lecanii p. 81, Girault Psyche 16.

Coelopisthia fumosipennis sp. n. Maryland, GAHAN p. 431 Canad. Ent. 41.

Derostenus conformis Thoms. pl. vii f. 11 & p. 443, Schmiedeknecht Gen. ins. 97.

Dibrachys boucheanus Ratz. p. vii figs. 4 & 5 & p. 358, Schmiedernecht T.c.

Dicoelothorax platycerus Ashm. pl. iii f. 3 & p. 79, Schmiedernecht T.c.

Dirrhinus reticulatus sp. n. Argentina, CAMERON Trans. Amer. Ent. Soc. 35 p. 432.

Ellolada gen. n. Eucharinae, trimaculata, p. 230, leucopoda p. 231, spp. n. Borneo, Cameron Entomologist 42.

Encarsia partenopea sp. n. Italy, Masi Portici Boll. Scuola agric. 4 p. 32.

Encyrtaspis brasiliensis Ashm. pl. iv f. 11 & p. 187, Schmiedernecht Gen. ins. 97.

Encyrtus vinulae sp. n. Italy, MASI Portici Boll. Scuola agric. 4 p. 12.— E. aeruginosus Dalm. pl. v f. 4 & 243, aphidivorus Mayr. figs. 2 & 3, SCHMIEDEKNECHT Gen. ins. 97.

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Habrocytus hyponomeutae sp. n. Italy, Masi Portici Boll. Scuola agric. 4 p. 13.

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Metapelma compressipes sp. n. Borneo, Cameron D. ent. Zs. 1909 p. 206.

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Oncochalcis jorgensenii sp. n. Argentina, Cameron Trans. Amer. Ent. Soc. 35 p. 430.

Oodera albo-pilosa sp. n. Zumbo, Crosby Broteria 8 p. 86.

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Prospattella lutea sp. n. Italy, Masi Portici Bull. Scuola agric. 4 p. 25.— P. diaspidicola, sp. n. Africa mer., SILVESTRI Rend. Acc. Lincei 18 1° Sem. p. 564.

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Trigonoderus areolatus sp. n. Argentina, Cameron Trans. Amer. Ent. Soc. 35 p. 435.

Trismicra fortidens sp. n. Argentina, CAMERON p. 430 T.c.

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Acanopsilus brevinervis Scotland, arcuatus, laticeps, Italy, spp. n., Kieffer p. 393 Ann. Sci. Soc. Bruxelles 33.

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Cephalonomia utahensis sp. n. Utah, Brues Bull. Wisc. Soc. 6 p. 154.

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Dissoxylabis gen. n., hirtipes sp. n. Bolivia, Kieffer p. 342 Ann. Soc. sci. Bruxelles 33.

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Entomacis graeffei sp. n. Austria, Kieffer p. 388 Ann. Soc. sci. Bruxelles

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Loxotropa steueri Q p. 385 f. 2, KIEFFER Ann. Soc. sci. Bruxelles 33.

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Platygaster; Une nouvelle forme larvaire, Vaney et Conte Paris C. R. ass. franç. avanc. sci. 36 (Reims, 1907) 2° Partie 1908 pp. 629-633.

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Prosoxylabis gen. n., maculipennis sp. n. S. America, Kieffer p. 344 T.c.

Prozelotypa gen. n., longicornis sp. n. Paraguay, Kieffer p. 367 T.c.

Rosneta gen. n. near Fidiobia and Anopedius, tritici sp. n. New York, Brues Bull. Wisc. Soc. 6. p. 157. Scelio nitens pl. i f. 8, calopteni f. 6, Brues Gen. ins. 80.—S. calopterus p. 247, furcatus p. 248, spp. n. Am. mer., Kieffer Bull. Soc. ent. France 1909.

Sceliomorpha hirtipes sp. n. Peru, Kieffer p. 249 Bull. Soc. ent. France 1909.—S. longicornis pl. 1 f. 11, Brues Gen. ins. 80.

Sceliotrachelus gen. n. Sceliotrachelinae subfam. n., braunsi sp. n. Algoa Bay pl. ii f. 5, Brues p. 13 Gen. ins. 80.

Serphus Schranck = (Proctotrupes Latr.), Kieffer Gen. ins. 95 p. 1, S. gravidator L. pl. f. 9 T.c.

Sparaison gregarium pl. i f. 1, Brues Gen. ins. 80.

Stephanodes gen. n. Mymaridae, elegans sp. n. England pl. xiv figs. 6-11, ENOCK p. 457 Tr. ent. Soc. London 1909.

Stethynium gen. n. Mymaridae, triclavatum sp. n. England pl. xii figs. 1-5, ENOCK p. 452 T.c.

Teleas mandibularis pl. 1 f. 9, BRUES Gen. ins. 80.

Telenomus manteroi p. 268, alpestris p. 269, spp. n. N. Italy, Kieffer Bull. Soc. ent. France 1909.

Therinopsilus gen. n. Belytidae, pubescens Brazil, p. 365, fuscicornis Bolivia, p. 366, spp. n., Kieffer Ann. Soc. sci. Bruxelles 33.

Trichogonatopus gen. n., rubriceps, p. 336, bogotensis p. 337, spp. n., Colombia, Kieffer T.c.

Trichopria inermis sp. n. Scotland, KIEFFER p. 386 T.c.

Trichosteresis syrphi Bouché pl. i f. 1, Kieffer Gen. ins. 94.

Trissocantha americana pl. i f. 7, Brues Gen. ins. 80.

Trimicrops claviger Q pl. i f. 2, KIEFFER Gen. ins. 94.

Trissolcus brochymenae pl. 1 f. 5, Brues Gen. ins. 80.

Tropidopsilus laticeps sp. n. Brazil, Kieffer p. 338 Ann. Soc. sci. Bruxelles 33.

Xenotoma melanocera, coloradensis, p. 370, parvicellula, laeta, xanthopus, p. 371, clinoneura, trisulcata, p. 372, rufosignata, bakeri, p. 373, klagesi, clarimontis, p. 374, fuscinervis, flavinervis, p. 375, spp. n. N. America, Kieffer T.c.

Xestobethylus gen. n. near Dissomphalus p. 449, pallidipes sp. n. Argentina p. 450, Cameron Trans. Amer. Ent. Soc. 35.

CYNIPIDAE.

Recueil de figures originales, galles de Cynipides, de feu Giraud; DARBOUX et HOUARD Paris C. R. ass. franc. avanc. sci. 36 (Reims 1907) 2° Partie, 1908 pp. 725-726.

Quercus pedunculata, auftretenden Cynipidengallen, Wachtl ZentrBl. Forstwes. 35 pp. 59-60.

Nachtrag "Zur Verbreitung der Gallwespen in der niederschlesischen Ebene" in Heft. 11 Jahrg. 1907, Schmidt Zs. wiss. Insektenbiol. 5 pp. 49-50.

Amblynotus bilineatus sp. n. Idaho, Kieffer Bull. Soc. Metz 26 p. 82.

Amphibolips, bibliography, synonymy, descriptions of genus and species, with figures of galls; Beutenmüller Bull. Amer. Mus. 26 pp. 47-56 pls. x-xv.

Anacharis flavicornis sp. n. Wisconsin, Kieffer Bull. Soc. Metz. 26 p. 80.

Andricus aciculatus p. 247, texanus p. 248, spp. n. Texas, Beutenmüller Ent. News 20.

Aulux cichorii p. 6, onobrychidis p. 15, taraxaci p. 30, spp. n., Europe, Kieffer Bull. Soc. Metz 26.

Belenocnema; synonymy, descriptions, gall, p. 278 pl. li, Вештемыська Bull. Amer. Mus. 26.

Biorhiza, bibliography, synonymy, descriptions of genus and species, with figures of their galls pp. 243-246, pls. xli-xlii, Beutenmüller Bull. Amer. Mus. 26.

Caleucoela gen. n. Eucoelinae, striatipennis, p. 62, brasiliensis p. 63, spp. n., Para, Kieffer Bull. Soc. Metz 26.

Calofigites gen. n. Figitinae, nitidus sp. n. Peru, Kieffer p. 93 T.c.

Compsodryoxenus; synonymy, descriptions, galls, p. 281 pl. li, Beutenmüller Bull. Amer. Mus. 26.

Cothonaspis (Tetraplasta) cincticornis Para, pictipennis, p. 70, C. (Pentarhoptra) clarimontis, California, C. (Anectoclis) signaticornis, p. 72, C. paraensis, Para, spp. n., bakeriana var. n. nigriventris, p. 73, C. brevigena p. 87, ancylotoma, sectigena, p. 88, boliviensis p. 89, spp. n. Bolivia, Kieffer Bull. Soc. Metz 26.

Diastrophus; N. American spp. and their galls, Beutenmüller Bull. Amer. Mus. 26 pp. 135-145 pls. xxvi-xxix.

Dissodontaspis gen. n. p. 59 Eucoelinac, flavipes sp. n. Para p. 60, Kieffer Bull. Soc. Metz 26.

Erisphagia validicornis sp. n. Para, Kieffer p. 66 T.c.

Eucoelidea arcuata sp. n. Wisconsin, Kieffer p. 65 T.c.

Eucoila (Psichachra) troglodytes, E. nudicollis, Wisconsin, p. 74, brasiliensis, xanthotoma, p. 75, paraensis p. 76, sulcatifrons, E. (Pentamerocera) integricollis, p. 77, E. (Hexamerocera) polychroma, Para, E. (Rhoptromeris) formicaria London, p. 78, spp. n., E. unicolor Bolivia p. 84, festiva Santa Cruz p. 85, atriceps Bolivia, bilineata Peru, p. 86, impressa Colombia p. 87, spp. n., Kieffer T.c.

Eumayria, bibliography, synonymy, etc., Beutenmüller Bull. Amer. Mus. 26 p. 277-279 pl. li.

Figites albinervis sp. n. Wisconsin, Kieffer Bull. Soc. Metz 26 p. 82.

Frireniella gen. n. Eucoelinae, bisulcata sp. n. Para, Kieffer p. 64 T.c.

Ganaspis variicornis p. 67, brasiliensis, bakeri, p. 68, rufopetiolata, fulvocincta, p. 69, spp. n., Para, rhombigera p. 89, boliviensis p. 90, spp. n., Bolivia, Kieffer T.o.

Gonaspis potentillae, BEUTENMÜLLER Bull. Amer. Mus. 26 pp. 143 & 144.

Gonieucoela brevidens sp. n. Bolivia, Kieffer Bull. Soc. Metz 26 p. 91.

Helcaspis; bibliography, synonymy, description of genus and species, with figures of galls of North American spp., Beutenmüller Bull. Amer. Mus. 26 pp. 29-45 pls. vii-ix.

. Ibalia fasciipennis sp. n. Pennsylvania, Kieffer p. 57 Bull. Soc. Metz 26.

Odonteucoila tricolor p. 60, nigra, dissomphala, p. 61, spp. n., Para, Kieffer T.c.

Odontosema gen. n. Eucoelinae p. 58, albinerve sp. n. Para p. 59, Kieffer T.c.

Paramblynotus ruficollis sp. n. Borneo, Cameron D. ent. Zs. 1909 p. 18.

Parateras; bibliography, synonymy, species BEUTENMÜLLER Bull. Amer. Mus. 26 p. 255.

Philonix; bibliography, synonymy, descriptions of genus and species, with figures of their galls, pp. 246–254, pl. xliii, erinacei sp. n. U.S. and Canada p. 247, BEUTENMÜLLER T.c.

Psilodora paraensis sp. n. p. 79 Brazil, with varr. festiva and rufosignata, rufocincta \mathcal{G} , p. 80, Kieffer Bull. Soc. Metz 26.

Rhabdeucoela bidentata sp. n. Bolivia, Kieffer T.c. p. 93.

Rhodites nodulosus sp. n. Massachusetts, Beutenmüller Ent. News 20 p. 247.—R. rosae, Reifung des Eies, Schleip Zool. Anz. 25 pp. 203-123.

Solenozopheria; synonymy, genus and species, galls, p. 280, pl. li, Beutenmüller Bull. Amer. Mus. 26.

Trisseucola nigricornis sp. n. Bolivia, Kieffer Bull. Soc. Metz 26 p. 91.

Xyalophora albipennis S. America p. 94, flavidipennis Peru, bogotensis Colombia, p. 95, spp. n., Kieffer T.c.

Xyalosema fossulata sp. n. Para, Kieffer p. 81 T.c.

Zopheroteras; bibliography, synonymy, descriptions of genus and species, gall, p. 255 pl. xlii, Beutenmüller Bull. Amer. Mus. 26.

Xystoteras volutellae, bibliography, gall, p. 256 pl. xlii, Beutenmüller T.c.

HYMENOPTERA PHYTOPHAGA, SIRICIDAE, TENTHREDINIDAE etc.

Swedish insect fauna, Hymenoptera Phytophaga, Tullgren Entomol. Tidskr. 29 1908 pp. 141-220.

Systematisches Verzeichnis der Chalastogastren Tirols; DALLA TORRE-Ent. Jahrb. 19 pp. 183-188.

Lebensweise der Holzwespen; Runow Intern. ent. Zs. 3 pp. 123-124 135-136. Notes sur la biologie de quelques Chalastrogastra, LOISELLE Feuille jeunes natural 40 p. 17-24.

Fleischfressende Blattwespen, Enslin Zs. wiss. Insektenbiol. 5 pp. 197–198.

Abia marginata, metallica, Sibiria spp. n., Mocsáry Ann. Mus. Hung. 7 pp. 1-2.

Atlantus almasyensis Turkestania, brachycerus Sibiria or., centrorufus Turkestania, eburneus Tonkin, elegans Tonkin, fulvicornis Turkestania, fulvipennis Batjan et Formosa, japonicus Japonia, lasureus Tonkin, lateralis Sibiria, or., luctuosus Turkestania, picticornis Japonia, planatus Tonkin, platycerus Japonia, rufipes Turkestania, rugulosus Malacca, sanguinolentus Turkestania, sextuberculatus India or., spp. n. temulus Scop. var. n. scutellatus Sibiria or., testaccus Batjan, tonkinensis Tonkin, tunidus, ussuriensis, Sibiria or., variabilis Turkestania, spp. n., Mocsáry pp. 20-33 T.c.—A. subnigriceps sp. n. Nevada, Id. t.c. p. 148.

Amasis amoena in Finland, Sahlberg Medd. Soc. Fauna Fenn. 35 p. 272, A. brasiliensis Brasilia, neotropica Paraguay, spp. n., Mocsáry Ann. Mus. Hung. 7 pp. 2-3.

Amauronematus xanthus p. 18, lincolnensis p. 19, spp. n., Nebraska, Rohwer Canad. Ent. 41.

Aphanius lenis sp. n. California, ROHWER p. 399 T.o.

Aprosthema pallidicornis sp. n. Sibiria or., Mocsáry Ann. Mus. Hung. 7 p. 9.

Arge apicalis, flavifrons, Africa or., fulvicornis Japonia, sanguinolenta Sibiria or., valida Celebes, vulnerata Tonkin, xanthocera Sibiria or., spp. n., Mocsáry pp. 4-6 T.c.

Athalia ahngeri sp. n. Transkaspia, Kokujev Rev. russ. ent. 9 p. 246.— A. laevigata, similis, spp. n., ustipennis var. n. pectoralis, vollenhoveni var. n. infumata Africa or., Mocsáry Ann. Mus. Hung. 7 pp. 12-13.

Blennocampa gillettei sp. n. Colorado, Rohwer p. 89 Canad. Ent. 41.

Brachytoma chalybeata Peru, fusciventris Bolivia, spp. n., Mocsáry Ann. Mus. Hung. 7 p. 10.

Caliroa liturata Florida p. 349, lineata p. 350, loricata p. 351, lorata p. 352, lunata p. 353, lobata p. 355, laudata p. 356, lacinata p. 357, labrata p. 360, lata p. 361, N. America, spp. n., Macgillivray Canad. Ent. 41.

Camptroprium subviolaceum sp. n. Peru, Mocsáry Ann. Mus. Hung. 7 p. 9.

Cephus infuscatus, Forsius Medd. Soc. Fauna Fenn. 35 p. 135.

Cimbex americana, anatomy, Severin & Severin Trans. Wis. Acad. 16, pp. 38-60 4 pls.; habits, Severin & Severin T.c. pp. 61-761 pl. & tables.—C. variabilis, Löwe Prakt. Bl. Pflanzenbau 7 p. 161.

Cindele africana sp. n. Africa or., Mocsáry Ann. Mus. Hung. 7 p. 6.

Claremontia gen. n. Blennocampinae, typica sp. n. California, Rohwer p. 397 Canad. Ent. 41.

Clavellaria allantiformis sp. n. Sibiria or., Mocsáry Ann. Mus. Hung. 7 p. 1.

Croesus; parthenogenesis, Rossum Ber. Ned. Ent. Ver. 2 pp. 267-270.— C. septrionalis, oviposition, Poulton p. xliv P. ent. Soc. London 1909.

Cryptocampus macgillivrayi, bebbianae, p. 18, maurus p. 23, propinquus p. 24, spp. n., U.S., Rohwer New York J. Ent. Soc. 17.

Dolerus; Systematische Bearbeitung der europäischen Arten. Enslin D. ent. Zs. 1909 pp. 487-501 & 595-608.—D. femur-rubrum p. 9, piercei, simulans, p. 10, N. America, spp. n., coloradensis and tejonensis p. 11, Rohwer Canad. Ent. 41.

Emphytus gillettei Macg. = (gillettei Roh.), Rонwer p. 9 Т.с.

Encarsioneura frigida, jucunda, similis, Sibiria or., spp. n., Mocsáry Ann. Mus. Hung. 7 pp. 14-16.

Endelomyia: characters, Macgillivray p. 346 Canad. Ent. 41.

Eriocampa rotundiformis sp. n. Nebraska, Rohwer p. 16 Canad. Ent. 41.

Eriocampoides; type, Macgillivray p. 347 Canad. Ent. 41.

†E. revelatus sp. n. Colorado Miocene, Cockerell Ann. Ent. Soc. Amer. 2 p. 251 pl. axviii f. 1.

Erythraspides tuckeri sp. n. Kansas, ROHWER p. 145 Canad. Ent. 41. Euura perdita sp. n. Colorado, Roh-WER p. 20 T.c.

Hemidianeura apicalis Brasilia, fuscipennis Peru, hyalinata Brasilia, spp. n., Mocsáry Ann. Mus. Hung. 7 pp. 7-8.

Hylotoma nigrescens p. 13, grandis p. 14, spp. n., Nebraska, Rohwer Canad. Ent. 41.—H. pectoralis, life history, Schwarz Proc. Ent. Soc. Washington 11 pp. 106-108 pls. vii-ix.

Jermakia spinisera sp. n. Sibiria or., Mocsáry Ann. Mus. Hung. 7 p. 19.

Labida doanei sp. n. California, Rohwer p. 91 & p. 332 Canad. 41.

Labidarge bimaculata, vittata, Brasilia, spp. n., Mocsáry Ann. Mus. Hung. 7 pp. 3-4.

Loderus Knw. Systematische Bearbeitung, Enslin D. ent. Zs. 1909 pp. 788-793.

Lophyrus pyri aux environs de Reims, Nibelle Feuille jeunes natural 39 p. 71.

Lygaeonematus ambiguus, Forsius Medd. Soc. Fauna Fenn. 35 p. 137.

Macrophyn albitarsis Sibiria or., bimaculata Turkestania, falsifica Japonia,
sodalitia Sibiria or., spp. n., Mocsáry
Ann. Mus. Hung. 7 pp. 16-17.—M.
pulchelliformis, sambuci, spp. n., Nebraska, Rohwer p. 15 Canad. Ent. 41.
—M. provancheri p. 328, nigricornis
p. 329, occidentalis p. 330, bakeri, truncata, p. 331, pluricinctella p. 332, multicincta, melanostoma p. 333, spp. n.,
United States, Rohwer T.c.

Megaxylea gigantea sp. n. Sibiria or., Mocsáry Ann. Mus. Hung. 7 p. 39.

Metallus rohweri sp. n. Rhode Island, MACGILLIVRAY p. 267 Ann. Ent. Soc. Amer. 2.

Monophadnus multicinctus sp. n. Washington, Rohwer p. 90 Canad. Ent. 41.

Neocharactus californicus sp. n. Paso Alto, Rohwer p. 89 T.c.

Pachynematus nigritibialis p. 17, vernalis p. 18, spp. n., Nebraska, Roh-Wer Canad. Ent. 41.

Pampsilota parriceps sp. n. Africa or., Mocsáry Ann. Mus. Hung. 7 p. 7.

Parabates gen. n. Scolioneurinae p. 262, histrionicus p. 263, inspiratus p. 264, spp. n., N. America, MacGillivray Ann. Ent. Soc. Amer. 2.

(N-11091 i)

Paururus atlantidis, sp. n. Azore, Ghigi Firenze Boll. Soc. Entom. 40 pp. 163-170 3 fig.

Periclista leucostoma p. 397, occidentalis p. 398, spp. n., California, Rohwer Canad. Ent. 41.

Perreyia fulva sp. n. Peru, MocsAry Ann. Mus. Hung. 7 p. 10.

Phlebatrophia gen. n. near Phyllotoma, mathesoni sp. n. Nova Scotia, Mac-GILLIVRAY p. 345 Canad. Ent. 41.

Poecilostoma convexa sp. n. New Jersey, MacGillivray p. 402 T.c.

Polybates gen. n. Scolioneurinae p. 264, slossonae sp. n. New Hampshire p. 265, MacGillivray Ann. Ent. Soc. Amer. 2.

Pristiphora fulvipes, Parthenogenesis, Rossum Ber. Ned. Ent. Ver. 2 pp. 283– 288.—P. zella sp. n. Nebraska, Rohwer p. 26 Canad. Ent. 41.

Protemphytus gen. n. for Emphytus coloradensis Weld., Rohwer p. 92 T.c.

Pteronus ribesi, Forsius p. 137 Medd. Soc. Fauna Fenn. 35.—P. cockerelli sp. n. Colorado, Rohwer p. 88 Canad. Ent. 41.

Pterygophorus biroi sp. n. N. Guinea, Mocsáry Ann. Mus. Hung. 7 p. 9.

Rhogogastera aenescens Sibiria or., nigrita Turkestania, opacella Sibiria or., vallicola Turkestania, spp. n., Mocsáry pp. 18-19 T.c.

Sericocerus fulvus sp. n. Brasilia, Mocsáry p. 8 T.c.

Schizocerus nortoni p. 11, lineatus p. 12, collaris p. 13, spp. n., Nebraksa, Rohwer Canad. Ent.. 41.—S. johnsoni sp. n. New Jersey, Macgillivray p. 403 Canad. Ent. 41.

Strombocerus fulvipennis Surinam, fulvus Peru, luteipes Brasilia, spp. n., Mocsáry Ann. Mus. Hung. 7 pp. 13-14.

Tenthredo araxana Caucasus, consobrina Turkestania, dealbata, fulvicornis, fulviventris, lateralis, leucocera, minuta, Sibiria or., nigroclypeata Caucasus, ruficornis, unifasciata, Sibiria or., versuta Japonia, spp. n., Mocsáry pp. 33-39 T.c.—T. versuta Japonia, ruficornis, unifasciata, Sibiria or., nigroclypeata Caucasus, spp. n., Mocsáry pp. 125-136 T.c.—T. mellipes p. 106, relativus p. 108, zelmirus, utensis, p. 109, vari-

frons p. 110, titusi p. 111, divergens p. 112, spp. n., United States, ferrugineipes var. n. pikei p. 107, pallicolus var. n. beulahensis p. 108, Rohwer Canad. Ent. 41.—T. sectiliformis p. 145, alpestris p. 146, hypoleuca, messicaeformis, p. 147, spp. n., Colorado, Rohwer p. 148 t.c.

Themos concinnus Peru, similis Brasilia, spp. n., Mocsáry Ann. Mus. Hung. 7 p. 8.—T. concinnus Peru, similis Brasilia, spp. n., Mocsáry pp. 125-136 T.o.

Tremex konowi sp. n. Neu Guinea, Lange D. ent. Zs. 1909 p. 210.

Trichiosoma lucorum L, Ueberliegen, MEISSNER Intern. ent. Zs. 8 p. 72.

Waldheimia chalybea Colebes, nigriventris Brasilia, pictipennis Peru, spp. n., Mocsáry Ann. Mus. Hung. 7 p. 11.—W. chalybea Celebes, nigriventris Brasilia, pictipennis Peru, spp. n., Mocsáry pp. 125-136 T.c.

Xiphydria ruficeps sp. n. Sibiria or., Mocsáry p. 39 T.c.—X. ruficeps sp. n. Sibiria orientalis, Mocsáry pp. 125-136 T.c.

LEPIDOPTERA.

The geographical distribution of Lepidoptera; Pagenstecher Jona pp. ix + 451 & 2 maps.

Morphologie der skandinavische Schmetterlingseier; Peyron Stockholm, Vet.-Ak. Handl. 44 No. 1 pp. 1-304 10 pls. & 232 figs.

Annotated catalogue of Lepidoptera of Morbihan, Brittany; JOANNIS Ann. Soc. ent. France 77 pp. 689-838 & pl. xv.

Charakteristik der Lepidopterenfauna Bulgariens, BACHMETJEV Rev. russ. ent. 9 pp. 278-289.

Lepidopteren von Russland, SINEGUB Moskva 1909 pp. 1-108 3 Taf.

The family tree of moths and butterflies traced in their organs of sense; (Continuation); SWINTON Soc. entomol 23 pp. 148-150 156-158. Tableaux analytiques illustrés pour la détermination des Lépidoptères de France, de Suisse et de Belgique; ANDRÉ Misc. Ent. 14 1906 pag. spéc. 129-136; 15 1907 pp. 137-152.

Iconographie des Chenilles (suite); GOOSSENS Levallois-Perret Ann. assoc. natural. 14 1909 (3-12).

Rhopalocera.

I Ropaloceri del Trentino, Sud-Tirol; MARCHI Trient xiii + 190.

Nymphalidae Lycaenidae and Hesperiidae der Steiermark; Gadolla Graz Mitt. Natw. Ver. Steierm. 45 pp. 441-443 & 450-455.

PAPILIONIDAE.

Elevational distribution of Himalayan Papilionidae, Harcourt-Bath pp. 195-206 Entomologist 42.

Doritis apollinus aurantiaca nov. aberr., Culot p. 271 Bull. Soc. ent. France 1909.

Eurycus cressida subsp. n. insularis, Frumstorfer Intern. ent. Zs. 3 p. 3.

Iphiclides ajax larva, Floersheim p. 113 Ent. Rec. 21.

Laertias philenor larval habits, Floersheim p. 146 & p. 157 Ent. Rec.

Leptocircus meges subspp. n. pessinus Palawan, pallidus Tonkin, annamiticus Annam, niasicus Nias; curius subspp. n. magistralis China, tutationis Java etc., Fruhstorfer Soc. entomol. 24 p. 68.

Ornithoptera; Verbreitung und Lebensgewohnheiten, Werner Prometheus 20 pp. 811-813.—Ornithoptera, STEPHAN Natur. u. Offenb. 55 pp. 513-529.

Icones Ornithopterorum, pts. 18 & 19, RIPPON.

Papilio; polymorphism of some eastern, Jordan pp. 1-3 P. ent. Soc. London 1909.—Papilio; Lebensweise und Zucht, Rothke Ent. Zs. 23 pp. 69-73.—P. boolae sp. n. Boola, Strand Arch. Natg. 75 Bd 1 p. 307.—P. echo Burma, ikusa Japan, p. 85, potamonianus Congo p. 86, spp. n., Ehrmanus Canad. Ent. 41.—P. neyi sp. n., euryleon analmus f. n. punctata, Ecuador, Niepelt Berliner ent. Zs. 54 pp. 103-105.—

P. agestor subsp. n. matsumurae Formosa, FRUHSTORFER Intern. ent. Zs. 2 p. 282.—P. agestor subspp. n. cresconius and agestorides, veiovis subsp. n. aristyllos, FRUHSTORFER Ent. Zs. 22 p. 190. -P. alexanor ab. latefasciata, CULOT B. Soc. Lép. Genève 1 p. 266; P. alexanor ab. cincta, Muschamp Bul. Soc. Lép. Genève 1 p. 168.-P. androgeus subsp. n. bagous Brasilia, FRUHSTORFER in Koch-Grünberg 2 p. 357.—P. antheus ab. n. scheffleri O. Afrika, STRAND Arch. Natg. 75 1 p. 367.—P. aegeus beatrix var. n. Queensland, WATERHOUSE Vict. Nat. 25 p. 118 .- P. dardanus var. n. dorippoides, TRIMEN p. 554 Tr. ent. Soc. London 1908.—P. machaon, habits, FLOERSHEIM Ent. Record 21 pp. 14-17. —P. machaon v. convexifasciatus und v. concavifasciatus, Cuno Ent. Zs. 23 pp. 14; P. machaon v. convexifasciatus und concavifasciatus, Synonymie, GALVAGNI Ent. Zs. 22 pp. 209-210; P. machaon varr., Reiff Ent. Zs. 22 pp. 216-217; P. machaon ab. n. sphyroides Europa, benesignata Rossia or., KRULIKOVSKIJ Rev. russ. ent. 9 p. 109.—P. memnon, Metamorphose, Polymorphismus, Vererbung der weiblichen Farbe, JACOBSON Tijdschr. Ent. 52 pp. 125-157; P. perrhebus ersten Stände, Schrottky D. ent. Zs. Iris 22 pp. 133-134.—P. paris f. n. gemmifera, subspp. n. tissaphernes, majestatis, splendidior, FRUH-STORFER Ent. Zs. 22.—P. podalirius ab. n., Blachier Bul. Soc. Lép. Genève 1. p. 376.—P. polyctor subsp. n. thrasymedes Formosa, Fruhstorfer Soc. entomol. 24 p. 121.—P. polyxenes, life history and habits, pp. 20-24 ff. 5, 6, CHITTENDEN U. S. Dept. Agric. Ent. Bull. 82 Part 2.—P. rex var. n. arnoldi Africa, RICHELMANN Intern. ent. Zs. 8 p. 102.-P. ulysses nom. n. rothschildianus, eurypylus subsp. n. aloricus, gabinus jason subspp. n. nanus, appalejus & autronicus, antiphates subspp. n. linga & paetus, aristeus subspp. n. pedo & parmatinus, delesserti subsp. n. sacerdotalis, labienus nom. n., FRUHSTORFER Ent. Zs. 22.—P. demetrius subsp. n. lenocinius, rhetenor subspp. n. turificator and publitius, protenor subsp. n. sulpitius, bootes subsp. n. rubricundus, palinurus subspp. n. nymphodorus tubero and nikagoras, peranthus subspp. n. fannius and kinesias, lorquinianus subsp. n. apollodorus, pericles subspp. n. hekaton, hermogenes and olympiodorus, ulysses subspp. n. physkon, oxyartes, (N-11091 j)

eugenius and taxiles, gyas subsp. n. aribbas, payeni subsp. n. ciminius, euchenor subspp. n. scribonius and hippotas, f. n. mago, rumanzowius subspp. n. ciris and spinturnix, ambrax subspp. n. mazaios and akames, pitmani subsp. n. leptopsephus, polytes subspp. n. passienus, falcidius, nicomachus, vigetlius, rusius, neomelanides, f. n. cyroides, rubida, Fruhstorfere Ent. Zs. 22.

Parnassius mnemosyne varr. n. p. 2, apollo subsp. n. escalerae p. 9 and substitutus p. 10, imperator intermedius subsp. n. p. 19, ROTHSCHILD Nov. Zool. 16.—P. apollo subspp. n. maximilianus Deutschl., ancile Doutschl., cetius Austria, ottonius Austria, leovigildus Digne, guadarramensis Spanien, piedemontanus Piemont, FRUHSTORFER Ent. Zs. 23 pp. 150-151; P. apollo subspp. n. luitpoldus, ancile, Deutschl., cetius, ottonius Österreich, FRUHSTORFER Intern. ent. Zs. 3 p. 161; P. apollo f. n. asturiensis Hispania, PAGENSTECHER Wiesbaden Jahrb. Ver. Natk. 62 p. 209. P. apollo var. n. suaneticus Kaukasien, ARNOLD Ent. Zs. 23 p. 160; P. apollo subsp. n. silesianus Riesengebirge, MARSCHNER Berliner ent. Zs. 54 p. 72. -P. apollo, cetius and albus, GALVAGNI Wion Jahrber. Entom. Ver. 20 pp. 147-162.—P. apollo ab. n. ponsoni, Culot Bull. Soc. Lép. Genève 1 p. 167; P. apollo ab. n. rufadilatata, LACREUZE Bul. Soc. Lép. Genève 1 p. 383; P. apollo ab. n. novarae, Blachier Bul. Soc. Lép. Genève 1 p. 376; P. apollo, wenig bekannte Formen, FRINGS Ent. Zs. 22 pp. 217-218; P. apollo im Jura, PAGENSTECHER Ent. Zs. 22 pp. 185-190.—P. appollonius narynus, Fruhst., McDonnough Ent. Zs. 22 p. 179.-P. bremeri ab. n. flavomaculata, MOLTRECHT Ent. Zs. 22 pp. 184-185 .- P. delius var. n. ruckbeili, discobolus var. n. tancrei, p. 108, actius var. n. urumtsiensis p. 109, DECKERT Paris Bul. soc. ent. 1909.— P. delius, HOFFMANN Wien Jahrber. Entom. Ver. 19 pp. 63-84.—P. mnemosyne, Hoffmann Ent. Jahrb. 19 pp. 129-131.—P. mnemosyne var. n. cassiensis, Stept Ann. Mus. Marseille 12 p. 5.—P. mnemosyne ab. n. habichi Hochschwab, Bohatsch Wien Jahrber. Entom. Ver. 19 p. 135 pl.—P. mnemosyne abb. n. taeniata and arcuata, HIRSCHKE Wien Jahrber. Entom. Ver. 20 p. 133.-P. mnemosyne subsp. n.

craspedontis. Fruhstorfer Ent. Zs. 22 p. 192; P. mnemosyne u. a. abb., STICHEL Berliner ent. Zs. 54 pp. (38)-(41) Taf. 1.—P. mnemosyne vom Vogelsberg, Fruhstorfer Intern. ent. Zs. 3 p. 124.—P. phoebus barthae n. ab., HIRSCHKE Wien Jahrber. Entom. Ver. 19 p. 127.—P. phoebus ab. n. graphiça Ortler, HIRSCHKE p. 137 T.c.

PIERIDAE.

The Pieridae of Java, general work, including early stages, habits, etc. Part i; PIEPERS & SNELLEN assisted by FRUHSTORFER pp. xxiv + 66 & 4 pls.

Neues über die Genitalorgane der Pieriden; Fruhstorfer Ent. Zs. 22 pp. 198-201.

Anthocharis tagis bellezina and Abelia distinguished, WHEELER p. 151 Ent. Rec. 21.

Aporia crataegi meinhardi ab. n. Tomssk, Krulikovskij Rev. russ. ent. 8 p. 270; colona f. n. Viatka, Krulikovskij Rev. russ. ent. 9 p. 293; Periodisches Auftreten, Fiedler Zs. wiss. Insektenbiol. 5 p. 69; in Oesterreich-Ungarn und Serbien, Variabilität der Flugellänge, Bachmetjew D. ent. Zs. 1909 pp. 655-660; in Sophia Variabilität der Flügellänge, Bachmetjew Zs. wiss. Insektenbiol. 5 pp. 110-113 141-147 186-196; A. crataegi, Stephan Zs. wiss. Insektenbiol. 5 pp. 168-169.

Appias tsurui, yayeyamana, kawakamii, spp. n. Japan, Matsumura Ent. Zs. 23 p. 87-88.

Belenois westwoodi variation, zochalia var. n. ochracea, HERON p. 168 Tr. Zool. Soc. 19.

Colias aurora ab. n. obscura, Mol-BECHT Ent. Zs. 22 p. 184.—C. chrysotheme sibirica ab. n. malmyrhensis Viatka, Krulikovskij Rev. russ. ent. 9 p. 296.—C. edusa ab. n. nigrofasciata Ober-Oesterreich, Maurer Wien Jahrber. Entom. Ver. 19 p. 31; in Thüringen und Norddeutschland, Meder Intern. ent. Zs. 3 pp. 26-27; und Sonnensteckenperiode, Stmroth Zs. wiss. Insektenbiol. 5 pp. 63-65; C. edusa, Jahn Intern. ent. Zs. 2 p. 255.—C. myrmidone abb. n. irinae & sophiae Rossia orient., Krulikovskij Rev. russ. ent. 9 p. 110; Formen, Schawerda Wien Jahrber. Entom. Ver. 19 pp. 85-126; Variation, Pieszczek Wien Jahrber. Entom. Ver. 20 pp. 43-131; ab. n. pieszczeki Judenburg, Predota Wien Jahrber. Entom. Ver. 20 p. 141.—C. phicomone ab. pupillata, Rehfous p. 261; ab. blachieri, Culot p. 265; C. edusa Q ab. pupillata, Reverdin p. 170; Genève Bul. Soc. Lép. 1.

Delias fuliginosus p. 176 pl. vi f. 1, pratti f. 2, heroni f. 3, p. 177, bakeri f. 4 p. 178, dixeyi f. 5, bothwelli f. 6, p. 179, caroli pl. vii f. 1, rothschildi figs. 2 & 6, p. 180, castaneus f. 3, jordani f. 7, p. 181, spp. n., New Guinea, Kenrick Ann. Nat. Hist. 4.—D. patrua var. n. formosana, Matsumura Ent. Zs. 23 p. 92.

Dismorphia niepelti sp. n. Ecuador, WEYMER D. ent. Zs. Iris 22 p. 26.

Euchloe cardamines ab. n. kutukovi Gouv. Perm., Krulikovskij Rev. russ. ent. 9 p. 265; in Val Pellice, GAY Monitore zool. ital. 20 p. 83.—E. Neue Art oder Abart? Slevoot Soc. entomol. 24 p. 62.—E. sara early stages, Coolide & Newcomer p. 45 Canad. Ent. 41.

Gon. rhamni gynandr., GRONEMEYER Ent. Zs. 23 p. 32.

Huphina nama var. n. koannania Japan, Matsumura Ent. Zs. Stuttgart 23 p. 88.

Leptidia (= Leucophasia Stph.). CULOT Bul. Soc. Lép. Genève 1 p. 246. —L. sinapis ab. n., BLACHIER Bul. Soc. Lép. Genève 1 p. 377; L. ab. erysimi, CULOT Bul. Soc. Lép. Genève 1 p. 369.

Mylothris sulphureocincta sp. n. O. Afrika, Strand D. ent. Zs. Iris 22 p. 109.—M. ruandana sp. n., Strand Soc. entomol. 24 p. 42.

Pieris; spp., larvae, Forbes Psyche 16 pp. 71-73 text-figs. 1-9.—Pieris; Zuchtung fremder Pieridenformen aus Hallischen Puppen, Bandermann Zs. wiss. Insektenbiol. 5 pp. 135-136 and Ent. Zs. 22 p. 226.—P. moltrechti sp. n. Formose, Obertiür Paris Bul. soc. ent. 1909 p. 48.—P. brassicae, Verwandlung, Pfurtscheller Aus d. Natur. 5 pp. 513-528; mit exotischer Lebensweise, Martin Ent. Zs. 22 pp. 163; in India, Peile p. 269 J. Bombay Soc. 19; singulier préjugé, Marchal Feuilles jeunes natural. 39 p. 71.—P. daplidice var. n. jackontovi (iii. Gener.), Krulkovskij Mater. faun. flor. Russ.

9 p. 57.—P. manni early stages, habits and characters, Powell Ent. Rec. 21 pp. 37 etc. pl. iv; manni, FRINGS Soc. entomol. 24 p. 73; P. manni f. n. asta Dalmatia, and rossi f. n. farpa Roma, rapae leucosoma f. n. vaga Smyrna, rapae f. n. atomaria Dalmatia, FRUH-STORFER Ent. Zs. 23 pp. 41-42.—P. manni and rapae distinguished, & structures, Reverdin p. 149 & pl. xiii Ent. Rec. 21.—P. melete var. n. malayica Singapore, MARTIN Ent. Zs. 23 p. 161. —P. napi subspp. n. adalwinda, leovigilda, nesis, FRUHSTORFER Intern. ent. Zs. 3 p. 88; var. n. basinigra, HARWOOD p. 40 Entomologist 45; abb. n., Schima p. (376) Verh. z.-b. Ges. Wien 59; P. napi, Hemmerling Intern. ent. Zs. 3 pp. 42-43 54-55 63-64 70-72.—P. rapae subspp. n. micipsa, lysicles, FRUHSTORFER Intern. ent. Zs. 3 p. 88.—P. rubrobasialis ab. n. lathyana O. Afrika, STRAND D. ent. Zs. Iris 22 p. 110 .- P. severina ab. n. sigerrensis, frobeniusi sp. n., Sigirri, STRAND Arch. Natg. 75 Bd 1 pp. 305-306.

Styx infernalis to Erycinidae; JORDAN p. xi P. ent. Soc. London 1909.

Teracolus infumatus var. n. seineri Zambesi, Strand Arch. Natg. 75 1 p. 378.—T. elgonensis var. n. glauningi Kamerun, Schultze Soc. entomol. 24 p. 19.

Terias punctissima sp. n. Japan, MATSUMURA Ent. Zs. Stuttgart 23 p. 88.

Danaidae, Ithomiidae, Acraeidae, Heliconiidae.

Acraea zambesina sp. n. Portug. Ostafrika, Aurivillius Ark. Zool. 5 No. 5 p. 1.—A. rhodesiana p. 240, intermedia p. 241, spp. n. Rhodesia, violarum subspp. n. umbrata Rhodesia p. 242 & gracitis Mashunaland p. 243, anacreon subsp. n. speciosa Angola p. 245, onerata f. n. umida Rhodesia p. 246, Wichgraf Berliner ent. Zs. 53.—A. amicitiae sp. n. Ruwenzori pl. v f. 11 & p. 148, Heron Tr. zool. Soc. 19.—A. pseudepaea sp. n. W. Africa, Dudgeon p. liii P. ent. Soc. London 1909.—A. asboloplintha subsp. n. rubescens, Trimen p. 547 Tr. ent. Soc. 1908.—A. uvui ab. n. interruptella O. Afrika, Strand D. ent. Zs. Iris 22 p. 106.—A. chlio ?, Neave p. 171 Ent. Mag. 45.

Amauris ochleides var. n. comorana Aurivillius Reise Ostafrika Bd 2 pp. 309-384.

Anosia plexippus variations in wing scales, pp. 402-406 pls. xx-xxii, Allen Ent. News Philad. 20.

Danaida chrysippus var. n. ? orientis, Aurivilius Reise Ostafrika Bd. 2 pp. 309-348.

Danais aglea subsp. n. maghaba Formosa, p. 116, werneri sp. n. Nova Guinea, eryx subspp. n. furius Java and maenius Sumatra, p. 117, FRUHSTORFER Ent. Zs. 23.

Danais, Euploea; Duftorgane der weiblichen Schmetterlinge nebst Beiträgen zur Kenntnis der Sinnesorgane auf dem Schmetterlingsflügel und der Duftpinsel der Männchen; Freiling Zs. wiss. Zool. 92 pp. 210–290 6 Taf.—Migration in India, Andrewes p. 271 J. Bombay Soc. 19.

Eucides tales subsp. n. calathus Ecuador, ricini subsp. n. insulanus Trinidad, STICHEL Soc. entomol. 23 pp. 178-179.

Heliconius melpomene timureta f. n. peregrina Ecuador, Stichel Soc. entomol. 23 p. 178.—H. melopmene aglaope fl. n. fraterna and gratiosa, erato estrella f. n. rothschildi, Ecuador, Niepelt Berliner ent. Zs. 54 pp. 106-107.—H. numatus-isabellinus intermedia nov. form. and fusca nov. ab., p. 459, sylvana-sylvana sticheli nov. form. p. 460, ethylla-metabilis depuncta n. f., anderida-fornarina bouvieri n. f., p. 461, burneyi oberthuri n. f., and jeannae n. var. burneyi-jeannae reducta n. f., doris-delila albina n. f. p. 462, Boullet & Le Cerf Bull. Mus. Paris 1909.

Ideopsis classica sp. n. Ceram, MARTIN D. ent. Zs. Iris 22 p. 155.

Melinaea pardalis subsp. n. madeira, MOULTON p. 604 Tr. ent. Soc. London 1908.

Planema alicia, invalid, ELTRINGHAM p. lxviii P. ent. Soc. London 1909.

Tithorea bonplandii subsp. n. faba, WEYMER D. ent. Zs. Iris 22 p. 1-35.

NYMPHALIDAE.

Melinda, Mycalesis, Cymothoe, Abbildungen, Grünberg D. ent. Zs. 1909 p. 642 2 Taf., and Diestogyna, Acraea, pp. 775-776 Taf. xi. Les papilles de la trompe des Nymphalinae, Guyénor Paris C. R. soc. biol. 66 p. 697-699.

Adelpha delphicola sp. n. Amazonas, FRUHSTORFER in Koch-Grünberg 2 p. 358.—A. isis subsp. n. pseudagrias Sta. Catharina, tizona subsp. n. tizonides, salnoneus subsp. n. emilia, Columbia, FRUHSTORFER Ent. Zs. 28 pp. 40-41.

Aglais urticae list of varr., with table, 30 abb. n. from Essex, RAYNOR pp. 4-8 Ent. Record 21, and abb. p. 106 t.c.

Anaea rosae sp. n. Columbia, FASSL Soc. entomol. 24 p. 81.

Apatura fulva chrysolora f. n. pseudopallas, fulva subsp. n. setia Formosa, FRUHSTORFER Ent. Zs. 23 p. 40.—
A. subcaerulea var. n. formosana, Moltrecht p. 131 T.c.—A. Bastardzwitter, Borggreve Zool. Beob. 50 p. 83.

Araschnia levana and prorsa, habits, REUSS p. 204 Ent. Rec. 21; Ab. RANGNOW Berliner ent. Zs. 54 p. 32 pl. i f. 13.

Argynnis aglaia Aberration, KYSELA Polyxena 1.—A. amathusia, Niederösterreich, Preissecker Verh. Z.-b. Ges. Wien 59 p. 231.-A. aphirape var. ossianus, Sahlberg Medd. Soc. Fauna Fenn. 35 pp. 67-71.—A. eugenia im Gouv. Jenisseisk, Altai, Mongolei, MEINHARDT Rev. russ. ent. 9 p. 148 .-A. euphrosyne varr. n. phaenna Transcauçasia pp. 285–286 dia, Saisonvarietät p. 286, aglaja var. n. auxo Ciscaucasia adippe var. n. thalestria: Causasus p. 287 paphia Hitzevarietät p. 288, Jachontov Rev. russ. ent. 8.—A, euphrosyne, Var., KRULIKOVSKIJ Rev. russ. ent. 8 p. 241. A. ino var. achasis falsch fur acharis, RAMME Intern. ent. Zs. 2 p. 319.-A. laodice, life-history, Frohawk p. 49 pl. ii Entomologist 42; structure of larval hairs, Chapmann p. 118 T.c.; FROHAWK p. 258 t.c.; Entwicklungsgeschichte, GILLMER Soc. entomol. 24 pp. 28-31 33-36; Ueberwinterung des Eies oder der Raupe, GILLMER Soc. entomol. 24 p. 113.—A. maja subsp. n. chrysobarylla, amathusia subspp. n. blachieri and jugurtha, dia subspp. n. leonina and setania, FRUHSTORFER Intern. ent. Zs. 3 pp. 20-21.—A. pales arsilache Alpenformen, HEINRICH Berliner ent. Zs. 54 p. 6.—A. pales

ab. n. deflavata, Wagner Ent. Zs. 23 p. 17.—A. pales subspp. n. brogotarus and palustris, euphrosyne subspp. n. rusalka and densoi, daphne subsp. n. nikator, Fruhstorfer Intern. ont. Zs. 3 pp. 112-113.—A. dia var. n. disconota, pahia butleri nom. n. propaphioides Viatka, Krulikovsky Rev. russ. ent. 9 p. 298.—A. paphia, melanotische Formen, Schultz, Intern. ent. Zs. 2 pp. 317 & 322-323.—A. thore Niederösterreich, Galvagni Verh. Z.-b. Ges. Wien 59 p. (233).

Aterica galene extensa subsp. n., HERON p. 153 Tr. zool. Soc. 19.

Basilarchia archippus var. n. lanthanis Cook & Watson p. 77 pl. v Canad. Ent. 41.

Brenthis selene ab., BIRD p. 218 Ent. Rec. 21.

Cethosia cydippe subspp. n. cenchrites coronilla, praestabilis, myrina f. n. melancholia, mindanensis subsp. n. festiva, Fruhstorfer Stettiner ent. Ztg. 70 pp. 209-238.

Charaxes opinatus sp. n. Ruwenzori pl. v f. 7 & p. 156, Heron Tr. zool. Soc. 19.—C. superbus sp. n. Kamerun, Schultze Soc. entomol. 23 p. 172.—C. neanthes and zoolina, var. n., Poulton pp. lxiv-lxx Proc. ent. Soc. London 1908; neanthes var. n. phanera, Jordan p. lxix t.c.—C. zoolina progeny, Leigh p. xlix P. ent. Soc. London 1909.—C. varenes var. n. comoranus, Aurivullius Reise Ostafrika Bd. 2 pp. 309-348.

Cirrochroa aoris, Hermaphrodit, Voelschow Ent. Rdsch. 26 p. 4.

Didonis biblis subspp. n. nectanabis and sisygambis S. America, Fruhstorfer Ent. Zs. 23 p. 41.

Diestogyna schultzei p. 2, conjungens p. 3, N. W. Kamerun, acutangula p. 4, Uganda, spp. n., Aurivillius Ark. Zool. 5 No. 5.

Dryas paphia, oviposition, larval hibernation, NEWMANN p. lx. Proc. ent. Soc. London 1908.

Ergolis pagenstecheri pl. v f. 6 form. n. aurantiaca f. 5, Heron p. 154 Tr. zool. Soc. 19.

Eriboea narcaea var. n. formosana, Moltrecht Ent. Zs. 23 p. 132. Eunica sydonia subsp. n. poppaeana, caelina subsp. n. alycia, pomona f. n. pomptata, norica subsp. n. occia, bechina subsp. n. medellina & chorienes, volumna subsp. n. intricata, cinara subsp. n. oreandra, taurione subsp. n. fasula, Fruhstorfer Stettiner ent. Ztg 70 pp. 209-238.

Euripus robustus subsp. n. myrinoides, Frunstorfer pp. 209-238 T.c.

Eurytela hiarbas and dryope, relations, Leigh p. xxxv P. ent. Soc. London 1909.

Euthalia teuta subsp. n. salpona, Fruhstorfer Stettiner ent. Ztg 70 pp. 209-238.

Hamanumida daedalus larva, TRIMEN p. 2 & pl. i f. l Tr. ent. Soc. London 1909.

Isodema formosanum f. n. umbratilis Formosa, Frunstorfer Ent. Zs. 28 p. 40.

Kallima buxtoni subsp. n. trebonia, FRUHSTORFER Ent. Zs. 23 pp. 228-231.—K. inactus, habits, (Japanese), NAWA Konch. Sek. 13 pp. 4-8.

Limenitis camilla subsp. n. prodiga, sibilla subspp. n. glorifica, puellula, FRUHSTOFER Intern. ent. Zs. 3 p. 94.—
L. populi ab. monochroma, GILLMER Breslau Jahresh. Vor. Insektenk. 1909 p. 37.; ab. n. fruhstorferi Rossia orient., KRULIKOVSKIJ Rev. russ. ent. 9 pp. 111.—L. eximia sp. n. Amur, Moltrecht Ent. Zs. 22 p. 184.

†Lithodryas nom. n. for Lithopsyche Scudd., Cockerell Bull. Amer. Mus. 26 p. 79.

Melitaea athalia ab. alba; Rehfous Bul. Soc. Lép. Genève 1 p. 262; allies, discussion continued, Wheeler Entomologist 42 pp. 4 etc. etc.; ab. jelineki, Joukl Čas. České Spol. Entomolog. 1908 p. 25.—M. cinxia ab. cernyi, phoebe ab. guerlleri, Joukl pp. 96-100. T.c.—M. didyma var. n. bosphorana, Dulot Bull. Soc. Lép. Genève 1 p. 166; ab. n. pieszczeki Steiermark, Skala Ent. Jahrb. 19 p. 136; Ab., Pieszczek Wien Jahrber. Entom. Ber. 20 pp. 43-131.—M. phoebe var. n. sextilis Circaucisia, Jachontov Rev. russ. ent. 8 p. 285.

Mynes querini subsp. n. ogulina, geoffroyi subsp. n. eugenius, Fruhstorfer Ent. Zs. 23 pp. 228-231.—

M. guerini subspp. n. opalina Neu-Guinea, atinia Neu-Guinea, turturilla Waigiu, geoffroyi subspp. n. sestia Neu-Guinea, scatinia Waigiu, Fruh-STORFER Soc. entomol. 24 p. 92.

Neptis agatha ab. n. lativittata Boola, STRAND Arch. Natg. 75 Bd i p. 305.— N. themis subsp. n. ilos Amur, sankara subsp. n. segesta Omi-Shan, Fruhstorfer Ent. Zs. 23 p. 42.

Phyciodes burchelli p. 100, pedrona p. 103, spp. n., Brazil, Moulton Ann. Nat. Hist. 3.

Polygonia c-album life-history, broods, NEWMANN pp. lxxxviii-xe Proc. ent. Soc. London 1908; ab., Keynes & Keynes p. 102 & pl. viii Ent. Rec. 21.

Precis milonia var. n. wintgensi O. Afrika, Strand D. ent. Zs. Iris 22 p. 107.—P. archesia var. n. frobeniusi Guinea, Strand Arch. Natg. 75 Bd 1 p. 304.

Pseudacraea rogersi sp. n. E. Africa, TRIMEN p. 549 Tr. ent. Soc. London 1908.—P. hobelyi is \$\mathbb{C}\$, tirikensis \$\mathcal{J}\$ of one species, Poulton p. lxiv P. ent. Soc. London 1909.

Pyrameis atalanta subsp. n. rubria Mexico, Fruhstorffer Intern. ent. Zs. 3 p. 94; Ueberwintert, Slevogt Soc. entomol. 24 pp. 100-101.—P. cardui, Kosmopolit, Stephan Natur u. Haus 17 p. 323; Aberration, Kysela Polyxena 1.

Sasakia fulguralis sp. n. Formosa, MATSUMURA Ent. Zs. 23 p. 92.

Terpander piepersi sp. n. an subsp. n. Java, Martin Ent. Zs. 23 p. 114.

Vanessa antiopa subspp. n. asopos, yedanula, Fruhstorfer Intern. ent. Zs. 3 p. 94; Aberration, Kysela Polyxena 1.—V. io, Vorbernger Ent. Rdsch. 26 p. 65; V. urticae ab. n. luna, Reuss p. 211 Ent. Rec. 21.—io and urticae variation, Reuss p. 83 & pl. vii Ent. Rec. 21; urticae and io, varr., Reuss p. 223 with cuts Entomologist 43; urticae and io, approximating variation, Reuss pp. 309—312 Entomologist 42.

Victorina steneles subsp. n. meridionalis Rio grande do Sul, Fruhstorffer Ent. Zs. 23 p. 41.

Zaretes itys subsp. n. pseuditys Espiritu-Santo p. 166, isidora subspp. n. russeus Columbia vulpecula Bahia, leopoldina Espiritu-Santo and vulpina Paraguay, ff. n. bisallina Java, foliacea Amazonas p. 167, Fruhstorffer Ent. Zs. 23.—Z. pseuditys sp. n. Espirito Santo, isidora subsp. n. vulpina, Fruhstorffer pp. 228–231 T.c.

BRASSOLIDAE, MORPHIDAE.

Brassolidae; STICHEL Das Tierreich Lfg 25 1909 pp. xiv + 244.

Neue Amathusiinae; FRUHSTORFER Soc. Entomol. 20 1905 pp. 129-130 137.

Morphotenaris kenricki sp. n. New Guinea, Bethune-Baker p. 183 Ann. Nat. Hist. 4.—M. adamsi sp. n. New Guinea, Lathy p. 272 Entomologist 42.

Taenaris macrops subsp. n. ternatana, FRUHSTORFER Stettiner ent. Ztg 70 pp. 209-238.

SATYRIDAE.

Antirrhaea geryonides sp. n. Ecuador WEYMER Ent. Zs. 23 p. 163.

Aphantopus hyperantus subsp. n. rufilius Tirol, Fruhstorfer Intern. ent. Zs. 3 p. 121.

Aranda schrenckii subspp. n. menalcas Japan damontas China, FRUHSTORFER p. 134 T.c.

Arge galathea ab. vispardi, JULLIEN Bull. Soc. Lép. Genève 1 p. 167.

Coenonympha arcania f. n. rufa Deutschl., GAUCKLER Soc. entomol. 24 p. 114; arcania satyrion, Hoff-MANN Wien Jahrber. Entom. Ver. 19 pp. 63-84.—C. pamphilus Ab., GALVAGNI Wien Mitt. Ver. Univ. 7 p. 194.

Epinephele ida subsp. n. marcia, tithonus subsp. n. decolorata, Fruhstorfer Ent. Zs. 22 p. 210.—E. jurtina abb., Kysela Polyxena 1; Abb., Ziegleb Berliner ent. Zs. 54 p. 46.; Helgoländer Form, Heinrich Berliner ent. Zs. 54 p. 3.—E. lycaon unipunctata; Cultot Bull. Soc. Lép. Genève 1 p. 265.—E. lycaon subspp. n. salona Bosnia, nikokles Alpen Schweiz, macrophthalma Hispania, ephisius Alpen, jurtina subsp. n. phormia Tirol; Erebiaformen; Schawerdd pp. (327)—(329) Verh. Z.-C. Ges. Wien 59.—E. adyte subspp. n. syrmia Bosnien

etobyma Alpes maritimes, FRUH-STORFER Intern. ent. Zs. 3 p. 134; Neuer Fundort, HOFFMANN Ent. Zs. 23 p. 142.—E. euryale kamensis f. n. p. 298 2 nn. aberr. p. 299 Viatka, KRULIKOVSKY Rev. russ. ent. 9.—E. flavofaxiata, ceuf et jeune chenille, Muschamp Genève Bull. Soc. lépidopt. 1905 pp. 59-67.—E. ligea var. n. takanonis Japan Matsumura Ent. Z. Entom. Ver. 19 pp. 85 126.—E. pluto var. n. micans Queenstown, Hamilton Trans. N. Zeal. Inst. 41 p. 47.—E. stygne var. n. styriaca, HIRSCHKE Wien Jahrber. Entom. Ver. 20 p. 139.— E. stygne subspp. n. praerutilia Obersavoyen, cubei Alpes maritimes, castiliana Hispania, ruhli fur pyrenaica Rühl; evias subsp. n. ottonis fur pyrenaica Stgr.; tyndarus subsp. n. goya für pyrenaica Ruhl pp. 123-124; ligea subspp. n. nikostrate Schweiz. Savoyen, carthusianorum Schweiz, permagna Alpes maritimes, siscia Italia; ceto subsp. n. cetra, tyndarus subspp. n. aquitania Alpes marit., carmenta Schweiz, aethiops subspp. n. derufata Tirol, rubria Schweiz. pp. 124-126, FRUHSTORFER Soc. entom. Steglitz 24 —E. tyndarus var. n. graucasica Kasbek, JACHONTOV Rev. russ. ent. 8 p. 288.—varr. en Suisse, Reverdin Bul. soc. Lép. Genève 1 p. 192-215; formes suisses, REVERDIN p. 287-294 T.c.

Erites angularis subsp. n. sumatrana Sumatra p. 147, argentina subspp. n. delia Sumatra fruhstorferi Java p. 150, elegans subsp. n. distincta Sumatra p. 153, Martin D. ent. Zs. Iris 22.

Eumenis arethusa subspp. n. ganda and galatia, briseis subsp. n. saga, FRUHSTORFER Ent. Zs. 22 p. 210.—E. arethusa subsp. n. segusiana, statilinus subspp. n. anaxarchus, anapus and euryanax, FRUHSTORFER Intern. ent. Zs. 3 pp. 20-21.

Gnophodes minchini sp. n Uganda pl. v f. 3 & p. 143, with parmeno D. and H. f. 10, grogani Sh. figs. 1 & 2, form. n. magniplaga f. 4 & p. 144, HERON Tr. zool. Soc. 19.

Hipparche euxina Crimea sp. n., Kuznecov St. Peterburg Ann. mus. zool. 14 pp. 140-144 pl. ii iii.

Leptoneura jansei sp. n. S. Africa, Swierstra Ann. Transvaal Mus. 1 p. 175. Lethe dura subsp. n. neoclides, pulaha subsp. n. didia, Formosa, Fruhstorfer Soc. entomol. 24 p. 121.—L. verma subsp. n. cintamani Formosa p. 40, syrcis subsp. n. diunaga Tonkin p. 42, sicelis subsp. n. vanelia Japan p. 118, Fruhstorfer Ent. Zs. 23.

Melanargia arge, campagna romana, Rostagno Roma Boll. Soc. zool. ital. 10 pp. 232–235.—M. galatea f. n. flava Deutschl., Linstow Berliner ent. Zs. 53 p. 233; ab. n. deubeli Austria, Silbernagel Ent. Zs. 23 p. 151; ab. lugens Obth., Reverdin Bull. Soc. Lép. Genève 1 p. 173.

Minois actaea subspp. n. serva, podarcina and castiliana, FRUHSTORFER Intern. ent. Zs. 3 p. 88.—M. circe subspp. n. maga, venefica, illecebra and venusta, FRUHSTORFER Ent. Zs. 22 p. 210.

Mycalesis abnormis sp. n. W. Africa, DUDGEON p. lii P. ent. Soc. London 1909.—M. mineus var. n. zonatus, perdiccas var. n. horishana, sanatana var. n. coronensis, Formosa, MATSUMURA Ent. Zs. 23 p. 92.—M. miriam f. n. punctijera O. Afrika, Strand D. ent. Zs. Itis 22 p. 105.—M. horsfieldi subsp. n. panthaka Formosa, Fruhstorfer Ent. Zs. 23 p. 116.

Neope watanabei sp. n. Formosa, MATSUMURA Ent. Zs. 23 p. 92.

Oeneis germana ab. n. depuncta, var. tristis ab. n. immaculata, dubia var. n. staudingeri, Austaut Ent. Zs. 23 pp. 23-26.

Pararge aegeria subsp. n. elegantia, n. f. aestivalis, FRUHSTORFER Ent. Zs. 22 p. 210.—P. maera et megaera pontes, Joannis Paris Bul. soc. ent. 1909 pp. 211-212 fig.—P. maera subspp. n. atabyris Rhodus, ordona Germania and Austria, herdonia Helvetia and Italia, silymbria Dalmatia, megera subsp. n. depulverata Algeria, deidamia subspp. n. interrupta Japan and thyria China, FRUHSTORFER Intern. ent. Zs. 3 p. 133-134.

Satyrus anthelea var. n. amaltheaneustteteri Gravosa, Schawerda Wien Verh. ZoolBot. Ges. 59 p. 325.—S. briseis subspp. n. bataia Germania, Austria, turatii Sicilia, Fruhstorfer Intern. ent. Zs. 3 p. 130; ab. n. prieurioides Blachier Bul. Soc. Lep. Genève 1 p. 378.—S. hermione, syriaca

alcyone, organes génitaux, Jullien Genève Bull. Soc. Lepidopt. 1 p. 361-365; hermione et alcyone, Culot Genève Bull. Soc. lépidopt. 1905 pp. 33-37.—S. statilinus and hermione, Varietaten, Galvagni Wien Mitt. Ver. Univ. 7 pp. 190 & 191.

Sinarista gen. n., adoptiva sp. n. Columbia, Weymer Ent. Zs. 23 p. 164.

Ypthima posticalis, minuta, tappana, spp. n. Formosa, Matsumura Ent. Zs. 23 p. 92.—Y. asterope abb. n. binucleolata O. Afrika, simpliciocellata, inocellata Abessinia, triocellata Nyassa-See, biocellata O. Afrika, biocelligera Sadani, interrupta O. Afrika, uniocellata O. Afrika, pupillaris ab. n. depupillata Loma, albida ab. n. conradsi Ukerewe, itonia var. n. quadriocellata O. Afrika, abb. n. microocellata O. Afrika, pluripupillata Africa centr. subocellata O. Afrika p. 112-114, doleta abb. n. tripunctata, quadripunctata Kamerun, quinquepunctata Kamerun, Togo, septemocellata Kamerun p. 114, Strand Ent. Zs. 23.

Zethera pimplea f. n. arayata, crastimina diloris, subsp. n. gadrosia, musa subsp. n. septentrionalis n. f. radenoides, subsp. n. mindorona, Fruhstorfee Stettiner ent. Ztg. 70 pp. 209–238.

ELYMNIIDAE, ERYCINIDAE, LIBYTHEIDAE.

Ancyluris meliboeus subsp. n. phonia S. Amerika, etias f. n. rubrofilum Bolivia, p. 57, silvicultrix sp. n. Peru, p. 37, aulestes subspp. n. lamprotaenia and jocularis, f. n. vastata, S. Amerika, p. 39, STICHEL Berliner ent. Zs. 54.

Barbicornis mona f. n. moneta, STICHEL p. 43 T.c.

Elymnias penanga f. n. immaculata, panthera subsp. n. balina, MARTIN D. ent. Zs. Iris 22 pp. 36-73.

Hades hecamede subspp. n. haematites and avicula Ecuador, STICHEL Berliner ent. Zs. 54 p. 54.

Hyphilaria parthensis subspp. n. tigrinella and virgulata, S. America, STICHEL p. 44 T.c.

Leucochimona gen. n. near Mesosemia, iphias sp. n. Mittelamerika, Stichel Berliner ent. Zs. 53 p. 273 and Op. cit. 54 p. 1.

Libythea celtis in Südtirol, WAGNER Ent. Zs. 22 p. 206; L. celtis subsp. n chinensis, celtoides subsp. n. matsumurae, FRUHSTORFER Ent. Zs. 22 p. 409.—
L. narina subsp. n. canuleia Celebes, geoffroy subspp. n. deminuta Dammer, maenia Waigiu, eugenia Neu Guinea, FRUHSTORFER Soc. entomol. 24 p. 52.—
L. myrrha subsp. n. myrrhina Sumatra, FRUHSTORFER p. 91 T.C.

Melanis agyrtus subsp. n. praxinus Venezuela, Stichel Berliner ent. Zs. 53 p. 270.

Mesosemia calypso var. n. cyanira Ecuador, synnephis Matto-Grosso, p. 4, scotina Surinam p. 5, lacernata Surinam p. 6, spp. n., philocles egabella f. n. bettina Rio Tonantins, thymetus subsp. n. umbrosa p. 8, subtilis sp. n. p. 9 materna Bolivia p. 9, impedia Amazonas p. 10, spp. n. judicialis subspp. n. testis and latissima Bolivia, nympharena Guyana p. 12, naiadella S. Amerika p. 13, nerine Bolivia, sirenia S. Amerika, p. 14, hypermegala Columbia p. 15, chionodes Columbia p. 15, mennonia S. Amerika p. 17, spp. n., bifasciata subsp. n. glaucoma Bolivia p. 18, suspiciosa Columbia p. 19, destituta Columbia, p. 20, spp. n., mevania subspp. n. mimallonis and magnessa S. Amerika p. 23, loruhama ff. n. adelphina, syntrepha and aesthetica S. America p. 24, asa subsp. n. asopis Panama p. 25, STICHEL Berliner ent. Zs. 54.

Nemeobius lucina ab. n. albomaculata, BLACHIER Bul. Soc. Lep. Genève 1 p. 379; Ab. n. 1 p. 383, ab. n. 2 p. 384, LACREUZE Genève Bul. Soc. Lep. 1.

Panara aureizona f. n. ornata Brasilia p. 267, thymele sp. n. S. Paulo p. 268, STICHEL Berliner ent. Zs. 53.

Rhetus arcius subspp. n. castigatus & amycus S. Amerika, STICHEL Op. cit. 54 p. 34.

Teratophthalma gen. n. für Diophthalma phelina Feld., STICHEL p. 1 T.c.

Tmetoglene eulesca, laridetta, Mexico meridae Venezuela, spp. n., DYAR Proc. Ent. Soc. Washington 11 p. 19.

Xenandra helius subsp. n. cruentata Peru, Stichel Berliner ent. Zs. 53 p. 264.

LYCAENIDAE.

Chrysophanid notes; Coolinge Psyche 16 p. 30. Agriades coridon \circ variation, Keynes p. 263 Ent. Rec. 21; Varr. and broods, Tutt and others P. ent. Soc. London 1909 pp. lv & lvi.—A. thetis and coridon affinities, Chapman and others P. ent. Soc. London 1909 pp. lxxiv-lxxx.

Albulina gen. n. type pheretes, TUTT p. 108 Ent. Rec. 21.

Aphnœus rex sp. n. Deutsch Ostafrika, Aurivillius Ark. Zool. 5 No. 5 pp. 5-6 f. 41.

Artopoëtes gen. n. for Lycaenopsis pryeri, Chapmann p. 473 Proc. Zool. Soc. 1909.

Bellargus ab. n. minor; Muschamp Genève Bul. Soc. Lép. 1 p. 264.

Bothria chennelli, corrections, Chapman p. lxxxii Proc. ent. Soc. London 1908.

Bothrinia nom. n. for Bothria, Chapm., Chapman p. 473 Proc. Zool. Soc. 1909.

Callicista ines, habitat, GRINNELL Psycho 16 p. 92.

Callophrys avis sp. n. S. France etc., Chapman p. 130 Ent. Rec. 21 and p. xxix P. ent. Soc. London 1909.—C. rubi ab. n. olivacea, Blachier Bul. Soc. Lep. Genève 1 p. 379.

Camena ctesia subsp. n. cakravarti Formosa, FRUHSTORFER Ent. Zs. 23 pp. 40 & 116.

Candalides arfaki sp. n. New Guinea p, 184 pl. vii f. 4, Bethune-Baker Ann. Nat. Hist. 4.

Celastrina limbatus (jynteana) genitalia, Chapman pl. B f. 1 and p. lxxxi, Proc. ent. Soc. London 1908—C. in "British Butterflies" by J. W. Tutt; Cockerell Amer. Nat. 43 pp. 114-116.

Chliaria vanavasa sp. n. Formosa, FRUHSTORFER Ent. Zs. 23 p. 116.

Chrysophanus dispar var. rutilus, Rothschild p. 13 Ent Rec. 21.—dispar var. n. festivus, hippothoe ab. n. spadona Viatka, Krulikovsky Rev. russ. ent. 9 p. 300.—C. dorcas natural history, Newcomb pp. 221–229 & 293 Canad. Ent. 41.—C. hippothoë ab. \(\foatsup abido-lunulata \); Reverdin B. Soc. Lép. Genève 1 p. 170.—C. phlaeas Biologie, Warnecke Ent. Zs. 23 pp. 29–30.—C. rutilus form near dispar reared

in England, Rylands p. 234 Entomologist 42; rutilus in Hungary, Sheldon p. 219 Entomologist 42; rutilus Deutschland Gen. ii, Marowski Zs. wiss. Insektenbiol. 5 pp. 26–27.—C. virgaureae subspp. n. osthelderi p. 113, alexandrae Ural p. 120, alciphron subspp. n. romanorum İtalia, gaudeolus Tirol; hippothoë subsp. n. cisalpina Italia p. 120, Fruhstorffer Intern. ent. Zs. 3.—C. virgaureae ab., Gnadt Intern. ent. Zs. 3 p. 15; var. n. caucasica, Jachontov p. 291 Rev. russe ent. 8; in Nordwest-Deutschland, Warnecke Ent. Wochenbl. 25 p. 214; Umgebung Hamburgs, Gillmer Intern. ent. Zs. 2 p. 253.

Cupido kilimandjarensis sp. n. O. Afrika, Strand Intern. Zs. 3 p. 129.— C. minuscula sp. n. Madagaskar, Aurivillius Reise Ostafrika Bd 2 p. 325.—C. osiris Meig. = (sebrus Bdv.), Tutt p. 152 Ent. Rec. 21.—C. minimus genitalia, Chapman pl. C. f. 3. Proc. ent. Soc. London 1908.

Curetis lucifuga sp. n. Formosa, FRUHSTORFER Soc. entomol. 24 p. 121.

Cyaniris argiolus ab. n. subtusradiata
Oberth., Blachier Bul. Soc. Lep.
Genève 1 p. 381.—C. dilectus subsp. n.
hermonthis, himileon [sic!] Formosa,
FRUHSTORFER Ent. Zs. 23 pp. 116117.—C. sikkima, Chapman p. lxxxi
Proc. ent. Soc. London 1908.—C.
ladon piasus natural history, Coolidge
p. 187 Canad. Ent. 41.

Cyllarus, ab. n. punctata Genève; Muschamp Genève B. Soc. Lép. 1 p. 264.

Eumedon ab. n. punctata Simplon; Muschamp Genève B. Soc. Lép. 1 p. 264.

Everes comunias and allies, Bethune-Baker p. 6 Canad. Ent. 41.—E. argiades var. n. diporides p. lxxxii, dipora genitalia pl. C f. 1, Chapman Proc. Ent. Soc. London 1908.

Glaucopsyche; Tutt p. 180 Ent. Rec. 21.

Harpendyreus gen. n. near Cupido p. 158, reginaldi sp. n. Ruwenzori p. 159 & pl. v figs. 23-26, Heron Tr. zool. Soc. 19.

Hirsutina gen. n. type damon, Turr p. 108 Ent. Rec. 21.

Hypochrysops wendisi sp. n. New Guinea p. 184 pl. vii f. 5, BETHUNE-BAKER Ann. Nat. Hist. 4. Incisalia hadros sp. n. Texas, henrici var. n. solatus, Cook & Watson p. 181 Canad. Ent. 41.

Jamides bochus subsp. formosanus Formosa, Fruhstorfer Ent. Zs. 23 p. 116.

Latiorina gen. n. type orbitulus, Tutt p. 108 Ent. Rec. 21.

Lycaena alcon var. n. sordidula Ciscaucasia, Jachontov Rev. russ. ent. 8 p. 292.—L. arcas ab. n. emutata Kappenberg, MARSCHNER Zs. wiss. Insektenbiol. 5 p. 166 and Berliner ent. Zs. 54 p. 73.—L. argyrognomon var. aegidion Meissn., ab. n. radiata, icarus ab. n., BLACHIER Bul. Soc. Lép. Genève 1 p. 380 .- L. astrarche variadans la Grande-Bretagne; HARRISON Genève Bull. Soc. lépidopt. 1905 pp. 30-32; homochromie de la Chenille, RABAUD Paris Bull. soc. ent. 1909 pp. 149-162.—L. astrarche, PIONNEAU Misc. ent. 17 p. 49; var. n. inhonora Russia centr. et orient., JACHONTOV Rev. russ. ent. 9 p. 253.-L. coretas, distincte, var., KRULI-KOVSKIJ Rev. russ. ent. 8 p. 241; ab. n. semicaeca Viatka, Kruli-KOVSKY Rev. russ. ent. 9 p. 301.— L. corydon var. n. borussia, DADD p. 63 Proc. ent. Soc. London 1908; Alpenformen, Heinrich p. (6) Berlin ent. Zs. 54.—L. cyane subsp. n. tarbagata Asia centralis, Suschkin Ent. Rdsch. 26 p. 59.—L. icarus ab. n. nigro-cuncata, Lacreuze Bul. Soc. Lép. Genève 1 p. 382; ab. n. livida Deutsch-land, Gillmer Intern. ent. Zs. 3 p. 64 .- L. icarus var. n. sardoa, meleager var. n. dalmatina, bellargus ab. n. rufomarginata, WAGNER Ent. Zs. 23 p. 17.—L. jefferyi sp. n. S. Africa, SWIERSTRA Ann. Transv. Mus. 1 p. 176 .- L. orbitulus ab. striata p. 371, damon ab. n. ? maculata p. 372, argus ab. n. rufolunulata p. 373, Suisse; Reverdin Bul. Soc. Lep. Genève 1; food-plant; Chapman p. 105 & p. 221 Entomologist 42.—L. sapphirus Meigen, GILLMER Intern. ent. Zs. 3 p. 144.

Lycaenesthes amanica, ukerewensis, rubrimaculata, spp. n. O. Afrika, STRAND, Ent. Zs. 23 pp. 125-127.

Lycaenopsis; the species revised from the male structures; Chapman Proc. zool. Soc. 1909 pp. 419-476 with

122 figs. For the synonymy and variation dealt with refer to the paper itself.

Mimacraea neavei sp. n. Cameroons, ELTRINGHAM p. 172 Ent. Mag. 45.

Miletus panaetha p. 112, elgneri p. 114, erythrina p. 115, Australia, spp. n., WATERHOUSE & LYELL Vict. Nat. 26.

Oberonia trypherota sp. n. Congo, BETHUNE-BAKER p. 422 Ann. Nat. Hist. 3.

Orbitulus ab. n. caeca; Muschamp Genève Bull. Soc. Lép. 1 p. 264.

Phasis dentatus sp. n. S. Africa, SWIERSTRA Ann. Transv. Mus. 1 p. 177.

Phengaris moltrechti sp. n. Formosa, Druge p. 416 Ann. Nat. Hist. 4.—P. moltrechti sp. n. Formose, Oberthür Paris Bul. soc. ent. 1909 p. 48.

Plebeius argus varr. n. cretaceus and masseyi, P. argyrognomon var. n. corsica, Tott p. 59 Ent. Rec. 21; argus and argyrognomon, distinctions, variation, Tott Chapman and others pp. xii-xix pls. A&B P. ent. Soc. London 1909.

Polyommatus escheri ab. n. escherinus, ROWLAND-BROWN p. 297 Entomologist 42.—P. icarus var., REUSS p. 211 Ent. Rec. 21.—P. sapphirus Meig = (escheri Hübn.), TUTT p. 202 Ent. Rec. 21.—P. virgaureae, CHRISTELLER Intern. ent. Zs. 3 p. 73.

Rusticus acmon monticola subsp. n., CLEMENCE p. 38 Canad. Ent. 41.

Teratoneura gen. n. Lipteninae, isabellae sp. n. Sierra Leone, Dudgeon p. li P. ent. Soc. London 1909.

Thecla melidor pl. xi f. 4 & p. 431, adamsi f. 2 & p. 432, crepundia f. 6, phrosine f. 7, p. 435, vesper f. 8 & p. 436, heodes figs. 10 & 11, Peru, gamma, Tucuman f. 9, p. 437, spp. n.; ematheon Cr. f. 5 & p. 432, gibberosa tomlinsoni f. 3 & p. 433, alatus f. 13, paphlagon f. 1, piplea = (subobscura Lath.), p. 434, purpurantes f. 12 & p. 435, joya Dogn. = (callao Dr.) p. 437; Druce Tr. ent. Soc. London 1909.—T. blenina Colorado Cockerell p. 322 Ent. News 20.—T. quercus food-plant, Meade-Waldo p. 233 Entomologist 42.

Thestor ballus varr. n. oberthuri and weberi, Holl p. 228 Bull. Soc. ent. France 1909.

Uranothauma delatorum sp. n. Ruwenzori pl. v figs. 21 & 22 & p. 161, falkensteini Dew. figs. 19 & 20, Heron Tr. zool. Soc. 19.

Vacciniina gen. n. type optilete; Torr p. 108 Ent. Rec. 21.

Virachola (Hypolycaena) livia, Lebensweise, Andres Ent. Zs. 23 p. 162.

Zizera dryina sp. n. India and Java, Chapman p. lxxxii Proc. ent. Soc. London 1908.

HESPERIIDAE.

Abantis ja pl. xlvii f. 2 & p. 408, lucretia f. 3 & p. 409, spp. n. Cameroons, DRUCE Proc. zool. Soc. 1909.

Abaratha siamica, Ceylon, MANDERS Spolia Zeylan 5 p. 102.

Achlyodes heros sp. n. Venezuela, Ehrmann p. 87 Canad. Ent. 41.

Acleros sparsum pl. xlvii f. 4, kasai f. 5, spp. n. Cameroons, Druce p. 410, Proc. zool. Soc. 1909.

Atrytone chingachgook sp. n. Venezuela, Weeks Ent. News 20 p. 264.

Callimormus elides sp. n. Venezuela, Weeks Ent. News 20 p. 263.

Caprona syrichthus subsp. n. pelias Tonkin p. 139, syrichthus subsp. n. pelias Tonkin, erosula subsp. n. pelligera Bonthain p. 173, FRUHSTORFER Ent. Zs. 23.

Capys disjunctus var. n. camendanus Kamerun, Schultze Soc. entomol. 24 p. 19; life-history, Leigh p. 184 Entomologist 42.

Carystus benchos sp. n. Bolivia, Weeks Ent. News 20 p. 263.

Celaenorhinus zea sp. n. Khasi hills, SWINHOE p. 89 Ann. Nat. Hist. 3.—C. nigropunctata pl. xlvii f. 11 & p. 407, DRUCE Proc. zool. Soc. 1909.—C. maculicornis subspp. n. formosanus Formosa, piepersi Java, p. 135, anoma Celebes, simula f. n. binotatus Java, aditta sp. n. Siam, snelleni sp. n. Celebes, p. 136, dan subspp. n. dhyana Java, sumatrana Sumatra, lombokiana Lombok, sumbawana Sumbawa, celebica Celebes, asmara subsp. n. milinda Java, p. 138, FRUHSTORFER Ent. Zs. 23.

Ceratrichia wollastoni sp. n. Ruwenzori pl. v figs. 13 & 14 & p. 174, Heron Tr. zool. Soc. 19.—C. ialemia sp. n. Cameroons pl. xlvii f. 10 & p. 413, DRUCE Proc. zool. Soc. 1909.

Chapra marcus sp. n. Delagoa-Bai, Strand Intern. ent. Zs. 3 p. 176.

Chioneigia gen. n. near Kedestes p. 172, leggei sp. n. Ruwenzori p. 173 & pl. v figs. 15-18, Heron Tr. zool. Soc. 19.

Eudamus boisduvalii sp. n. Venezuela, Ehrmann p. 86 Canad. Ent. 41.

Gorgyra afikpo sp. n. Cameroons pl. xlvii f. 6 & p. 411, Druce Proc. zool. Soc. 1909.

Hasora almea Borneo p. 90, amboinensis Amboina p. 91, spp. n., Swinhoe Ann. Nat. Hist. 3.

Hesperia alveus and allies, male characters, Reverdin p. 224 Ent. Rec. 21.—H. malvae var. malvoides, Oesterreich-Ungarn, Bohatsch p. (237) Verh. z.-b. Ges. Wien. 59.

Katreus johnstoni vide Ortholexis.

Lotongus onara Java, FRUHSTORFER Intern. ent. Zs. 3 pp. 149-150.

Odontoptilum angulata subspp. n. subangulata Bazilan, mahabini Java, sumatrana pygela subspp. n. ragupta Sumatra, p. 172, javanica Java p. 173, FRUHSTORFER Ent. Zs. 23.

Ortholexis melichroptera pl. xlvii f. 1, O. hollandi n. n. for Katreus johnstoni Holl. p. 407, DRUCE Proc. zool. Soc. 1909.

Oxypalpus wollastoni sp. n. Ruwenzori pl. v f. 12 & p. 171, HERON Tr. zool. Soc. 19.

Pardaleodes = (makala Beth.-Bak.), DRUCE p. 413 Proc. zool. Soc. 1909.

Parnara noctula pl. xlvii f. 7, palocampta f. 8, p. 411, flavifasciola f. 9 & p. 412, spp. n. Cameroons, arela Mab. (as Hypoleucis) = (Ceratrichia paucipunctata Beth.-Bak.) p. 412, DRUCE T.c.—P. entebbea sp. n. Uganda, SWINHOE p. 90 Ann. Nat. Hist. 3.

Plastingia niasana sp. n. Nias, helena subsp. n. natuna, tessellata subsp. n. mangolina Sula-Mangoli, flavescens subspp. n. samanga p. 171, and atala, Celebes, naga subspp. n. pellonia and valenia, Java, p. 172, FRUHSTORFER Ent. Zs. 23.

Sarangesa seineri sp. n. Zambesi, Strand Arch. Natg. 75 1 p. 383. Satarupa gopala subspp. n. tonkiniana Tonkin, majasra Formosa, affinis subsp. n. javinensis Java, sambara subsp. n. indosinica Tonkin, dirae subsp. n. visana Java, celebica subsp. n. nivescens Pik von Bonthain, Frunstorfer Ent. Zs. 23 p. 139.—S. formosana sp. n. Formosa, Fruhstorfer Intern. ent. Zs. 3 p. 149.

Tagiades pralaya subsp. n. pellita Tonkin, trichoneura subspp. n. nivosa Nias, nava Java, princeps subsp. n. bazilanus Bazilin, paradoxus sp. n. Borneo, Fruhstorfer Ent. Zs. 23 p. 173.

Thanaos tages, Albinismus, HOFFMANN, Ent. Jahrb. 19 pp. 137-138 1 Taf.

Timoconia gen. n. near Perichares, thielei sp. n. Delagoa-Bai, STRAND Intern. ent. Zs. 3 p. 176.

Yanguna mabillei sp. n. Peru, Drucz p. 438 Ann. Nat. Hist. 8.

Heterocera.

CASTNIIDAE.

Castnia acraeoides, Metamorphose, GRUNBERG D. ent. Zs. 1909 pp. 127-130.—C. licus, Larve schädlich am Zuckerrohr, Marchal Batavia Tijdschrift v. Nijverheid en Landbouw 78 p. 62.—C. therapon, Poulton p. xxxv P. ent. Soc. London 1909.

Pemphigostola gen. n., synemonistis sp. n. Madagascar, Strand D. ent. Zs. 1909 p. 663.

SESIIDAE.

Notes on the family Aegeriidae (Sesiidae) with a synoptic table of the North American genera; Busck Washington Proc. Ent. Soc. 11 pp. 115-118.

Bembecia hylaciformis bred, ROTH-SCHILD p. 260 Ent. Mag. 45.

Melittia superba sp. n. Peru, Rothschild p. 132 Nov. Zool. 16.

Premiers états et mœurs Sciapteron tabaniformis var. rhingiaeformis, LE CERF Levallois-Perret Ann. assoc. natural. 14 pp. 13-22 fig.

Sesia astragali sp. n. Vaucluse, JOANNIS p. 183 Bull. Soc. ent. France 1909.—S. lecerfi sp. n. Vernet-les-Bains, OBERTHÜR p. 186 Bull. Soc. ent. France 1909.—S. rondoui sp. n., SIÉPI Feuille jeunes natural 39 p. 117.—S. chrysidiformis n. f. nigripes fig. 1, obturata fig. 2, var. n. joannisi fig. 3 ab. n. chalcocnemis infusca n. ab., LE CERF Paris Bul. soc. ent. 1909 p. 117.—S. muscaeformis race nov. occidentalis, corsica race nov. venatensis Morbihan, Joannis Paris Ann. soc. ent. 77 p. 758.—S. flaviventris, sudlichsen Standorte, Trautmann Intern. ent. Zs. 2 p. 269.—S. myopaeformis Verbreitung in Russland, Lebensgeschichte, Schaden, Bekämpfung, Schreiner Sadovod 8 pp. 335-341.—S. rhododendri Pennsylvania p. 82, utahensis Utah p. 83, rubricincta Arizona p. 84, spp. n., Beutermmuller Ent. News 20.

SPHINGIDAE.

Sphingides hybrides paléarctiques; Denso Genève Bul. Soc. Lép. 1 p. 84-97 295-319.

Schwärmerhybriden, Katalog; Denso Bul. Soc. Lép. Genève 1 p. 320-353.

Fertilité des Sphingides européens dans la deuxième génération; Denso Bul. Soc. Lép. Geneve 1 (210 ss.).

Mauretanisches; Seitz Ent. Zs. 23 pp. 105-107.

Acherontia atropos, Swoboda Intern. ent. Zs. 3 p. 2; Grosse Intern. ent. Zs. 3 pp. 8-10 & 16-17; Seitz Ent. Zs. 23 pp. 50-54.

Chaerocampa elpenor $\mathfrak{F} \times D$. vespertilio \mathfrak{P} hybr. n. gillyi, Kysela Wien Polyxena 2 pp. 1-3.

Deilephila and Charocampa Hybriden; KYSELA Wien Polyxena 2 1907 pp. 65–82.—D. gallii 3 × D. vespertilio \$\foatspace{Phybr. n. carolae, KYSELA T.c. pp. 1-3.
—D. euphorbiae \$\frac{T.c. pp. 37-40.—D. hybr. burckhardti, KYSELA op. cit. \$\frac{T.c. pp. 17-40.—D. hybr. burckhardti, KYSELA op. cit. \$\frac{T.c. pp. 17-19 21-23 45-46 49-51.—D. intermedia, early stages, Cox Psyche 16 p. 110.—D. euphoribae, Darmsekretion; Deegsener Arch. Natg. 75 Bd 1 pp. 71-110 1 Taf.

Hæmorrhagia fuciformis aberration; Brown Levallois-Perret Ann. assoc. natural. 14 p. 23 fig.

Hemaris scabiosae, Hannemann Ent. Zs. 23 p. 231, Metopsilus porcellus ab. n. galbana Deutschl., GILLMER Ent. Jahrb. 19 p. 140 and Intern. ent. Zs. 3 p. 30.

Polyptichus brevis sp. n. Madagascar, Oberthür p. 233 Bull. Soc. ent. France 1909.

Protoparce convolvuli, CORNELSEN Intern. ent. Zs. 3 p. 193.

Pterogon prosperina, Biologisches, Srdinko Čas. České Spol. Entomolog. 1909 pp. 94-98.

Smerinthus ocellata, Trutzstellung, Weismann Natw. Wochenschr. 24 pp. 721-726 and Japha Zool. Jahrb. Syst. 27 pp. 321-328 1 Taf.

Sphinx perelegans in Canada, synonymy, Taylon & Gibson p. 423 Canad. Ent. 41.—S. planus metamorphosis, Japanese, Nagano Konch. Sek. 13 pp. 267–271.

Theretra palligosta early stages, Manson p. 760 J. Bombay Soc. 19.

Bombyces, s.l., incl. Cossidae Hepialidae, etc.

Élevage des vers à soie sauvages; Andre Mâcon. Bul. soc. 3 (passim et à part p. 252 fig.

Hochzeitsflüge der Spinner; Schwanz . Intern. ent. Zs. 3 pp. 60-61.

Abynotha preussi, mutmassliche Weibchen, STRAND Soc. entomol, 24 pp. 97-99.

Acantharctia lutifasciata sp. n. Transvaal, Hampson, p. 361 Ann. Nat. Hist. 4.—A. wintgensi sp. n. O. Afrika Strand D. ent. Zs. Iris 22 p. 113.

Acanthopsyche opacella, Parthenogenesis, Trautmann Intern. ent. Zs. 3 p. 124.

Acraga elvira sp. n. Colombia, Dognin p. 233 Ann. Soc. ent. Belgique 53.

Acrojana scutaea, ochracea, spp. n. W. Africa, Strand Ent. Rdsch. 26 p. 140.

Actias luna, Aberration, DABBERT Ent. Rdsch. 26 p. 47.—A. artemis und Saturnia atlantica, Zucht, GROSSE Intern. ent. Zs. 3 pp. 162 166–168.

Aegocera tricolora sp. n. Congo, BETHUNE-BAKER p. 434 Ann. Nat. Hist. 3.—A. kibwezensis sp. n. O. Afrika, STRAND Arch. Natg. 75 1 p. 367, Aemilia brunneipars sp. n. Peru, Hampson p. 360 Ann. Nat. Hist. 4.

Aganais comorana sp. n. Comoren, Aurivilius Reise Ostafrika Bd 2. p. 336.

Aglia tau, ab., Kysela Polyxena 1; im November, Cornelsen Intern. ent. Zs. 2 p. 249.

Aglaope in/austa, parasite, SEABRA p. 131 Bull. Soc. portug. 3.

Agorea ockendeni, citrinotincta, boettgeri, klagesi, p. 290, semivitrea, nigrostriata, p. 291, S. Amorica, schausi Contr. Amorica p. 290, spp. n. Phalaena pellucida Sepp. is a Bituryx not Agorea, p. 291, ROTHSCHILD NOV. Zool. 16.

Agylla brunneostriata p. 353, sanguivitta p. 354, spp. n., Peru, Hampson Ann. Nat. Hist. 4.

Albarracina korbi subsp. n. banghaasi Algeria, Rothschild Ent. Zs. 23 p. 142.

Amastus hampsoni Ecuador, pseudocollaris Chiriqui, p. 214, steinbachi, drucei, dognini, p. 215, rufescens p. 216, S. America, spp. n., Rothschld Ann. Nat. Hist. 4.—A. affinis, erebelloides, p. 278, pseuderebella, umber, childi, p. 279, S. America, flavicauda Centr. America p. 278, spp. n., hyalina orientalis subsp. n. p. 279, Rothschld Nov. Zool. 16.—A. fulvizonata sp. n. Peru, Hampson p. 358 Ann. Nat. Hist. 4.

Amaxia affinis pl. v f. 15, pulchra f. 16, rufobasalis f. 19, spp. n., S. America, pardalis parva subsp. n. f. 17, Rothschild p. 34 Nov. Zool. 16,

Ammalo constellata sp. n. Colombia, Dognin p. 221 Ann. Soc. ent. Belgique 53.—A. helops and allies, variation and forms, trujillaria Dogn. is valid, klagesi sp. n. Amazons, Rothschild p. 205 Ann. Nat. Hist. 4.

Amphicallia quagga sp. n. O. Afrika, STRAND D. ent. Zs. Iris 22 p. 101.

Amsacta flavicosta sp. n. Sierra Leone, Hamfson p. 362 Ann. Nat. Hist. 4.— A. impia sp. n. O. Afrika, Strand Ent. Rdsch. 26 p. 109.

Anadiasa leucocyma sp. n. Ruwenzori pl. iv f. 31 & p. 131, Hampson Tr. zool. Soc. 19.

Anaphe dempwolffi sp. n. O. Afrika, STRAND D. ent. Zs. Iris 22 p. 191. Anaphosia aurantiaca sp. n. Transvaal. Hampson p. 355 Ann. Nat. Hist. 4.

Anisota neomexicana sp. n. New Mexico, Вкенме р. 324 Canad. Ent. 41.

Antaxia affinis sp. n. Peru. pl. iv f. 20 p. 26, Rothschild Nov. Zool. 16.

Antheraea fickei sp. n. Celebes, WEYMER D. ent. Zs. Iris 22 p. 21.

Anthrocera exulans ab. pulchra, Mus-CHAMP p. 227 Ent. Rec. 21.

Aphyle albipicta sp. n. Fr. Guiana, Dognin p. 219 Ann. Soc. ent. Belgique 53.—A. affinis sp. n. S. America, pl. iv f. 12, Rothschild p. 24 Nov. Zool. 16.

Apisa metarctioides pl. iv f. 3 & p. 104, Hampson Tr. zool. 19.

Apluda incincta sp. n. Ruwenzori pl. iv f. 25 & p. 132, Hampson T.c.

Arctia caja, Trutzstellung, DAMPF Zs. wiss. Insektenbiol. 5 pp. 242-244; Frisst Schmetterlingsflugel, FIEDLER Zs. wiss. Insektenbiol. 5 p. 285; ab. n. clarki, Tutt p. 88 & pl. v Ent. Rec. 21.—A. flava immaculata, Schmidt Ent. Zs. 23 p. 141.

Arctianae of Japan, revision, MIYAKE Tokyo Bull. Coll Agric. 8 pp. 153-174.

Areomolis persimilis sp. n. S. America p. 270, rhodographa peruviana subsp. n. p. 269, Rothschild Nov. Zool. 16.— A. basalis pl. v figs. 20 & 21, alboapicalis pl. vii f. 29, griseata pl. v f. 32, ockendeni figs. 23 & 24, spp. n., S. America, Rothschild T.c..

Arniocera imperialis var. n. taborensis O. Afrika, Strand Ent. Rdsch. 26 p. 108.

Asura fulvimarginata sp. n. Madras, Hampson p. 357 Ann. Nat. Hist. 4.

Attacus edwardsi pupation, Watson p. 106 Entomologist 42.—A. orizaba, ovo-Zucht, Nadbyl Ent. Zs. 22 pp. 164.

Autochloris patagiata sp. n. Mexico, DYAR Proc. Ent. Soc. Washington 11 pp. 19-20.

Automeris subobscura sp. n. Bogota, WEYMER D. ent. Zs. Iris 22 p. 31.

Automolis albescens pl. v f. 26, favillacea f. 28 p. 36, ochracea f. 29, metacrinis f. 27, fasciipuncta f. 31, nigropunctata f. 32, p. 37, bicolor figs. 34 & 35,

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Axiopoeniella gen. n. type Utethseia laymerisa Grand., STRAND p. 357 Ann. Soc. ent. Belgique 53.

Azatrephes fuliginosa pl. v figs. 8-12 sp. n. Amazons, discalis Walk. f. 14, Rothschild p. 33 Nov. Zool. 16.

Baritius sannionis, flavescens, eleutheroides, p. 209, venata, S. America, schausi Trinidad, p. 210, peculiaris Venezuela p. 225, spp. n., Rothschild Ann. Nat. Hist. 4.—B. sannionis grandis subsp. n., Rothschild p. 275 Nov. Zool. 16.

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Beralade interjecta sp. n. Südafrika, AURIVILLIUS Ark. Zool. 5 No. 5 p. 11.—B. strigifascia sp. n. Ruwenzori pl. iv 1. 39 & p. 132, Hampson Tr. zool. Soc. 19.—B., African species; niphoessa, bistrigata, p. 372, pulla p. 373, spp, n.,

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Bertholdia ockendeni pl. vii f. 16, rubromaculata f. 17, grisescens f. 18, steinbachi f. 19, spp. n., S. Amorica, Rothschild Nov. Zool. 16.

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Blera rubiginosa sp. n. Fr. Guiana, Dognin p. 83 Ann. Soc. ent. Belgique 53.

Bombiliodes simulans sp. n. Cayenne, Druce p. 457 Ann. Nat. Hist. 3.

Bombycopsis brunnea sp. n. Nyassaland, Aurivillius Ark. Zool. 5 No. 5 p. 12.

Bombyx mori var. hereditary behaviour, Toyama Zs. indukt. Abstammgslehre 1 pp. 179–188; influence de la sexualité sur la nutrition, Vaney et Maignon Trav. Lab. étud. soie 13 pp. 35–40; La muscardine, Conte et Levrat Trav. Lab. étud. soie 13 pp. 61–72 fig.; Les maladies du ver à soie. La grasserie; Conte et Levrat Trav. Lab. étud. soie 13 pp. 41–60 fig.; Remarques sur l'hérédité des maladies, chez les vers à soie, Conte Paris C. R. ass. franc. avanc. sci. 36 (Reims 1907) 2° Partie 1908 pp. 622–623; Zwitter, Engel Ent. Zs. 23 pp. 123.—B. quercus, Noël Naturaliste 31 p. 71.—B. rubi Biologie de la Chenille, Pictet Bul. Soc. Lép. Genève 1 p. 354 etc.

Boriza lignosa sp. n. Fr. Guiana, Dognin p. 83 Ann. Soc. ent. Belgique 53.

Brachartona catoxantha, early stages, Pratt Bull. Dep. Agric. Fed. Malay 4.

Brahmaea catenaria, GRÜNBERG pl. xi f. 5 & p. 776 D. ent. Zs. 1909.

Bunaea cyrene sp. n. Nyassa-See, WEYMER D. ent. Zs. Iris 22, p. 1.

Cacostatia flaviventralis sp. n. Colombia, Dognin p. 215 Ann. Soc. ent. Belgique 53.

Calesia nigriventris sp. n. Madagaskar, Aurivillius Reise Ostafrika Bd. 2 p. 343.

Callidula nemoga sp. n. New Guinea, SWINHOE p. 94 Ann. Nat. Hist. 3.

Callosamia carolina life history notes, Jones Ent. News 20 p. 49 pls. iii iv. Calonotos triplaga sp. n. Amazons, Hampson p. 346 Ann. Nat. Hist. 4.

Carathis klagesi Amazons, australis St. Catharina, spp. n., Rothschild p. 209 Ann. Nat. Hist. 4.—C. ockendeni, affinis, spp. n., Peru, Rothschild p. 274 Nov. Zool. 16.

Casphalia Wlk. (= Zaracha Wlk.), Strand D. ent. Zs. Iris 22 pp. 185-190.

Castrica sordidior sp. n. S. America pl. vii f. 5 p. 48, Rothschild Nov. Zool. 16.

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Cerura tricuspis transiens f. n., Viatka, Krulikovskij Rev. russ. ent. 9 p. 302.

Chalcidica rauana sp. n. O. Afrika, Strand Intern. ent. Zs. 3 p. 130.

Chalia kunckclii Heylaerts et son parasite Monodontomerus phormio, KUNGKEL & HEYLAERTS Nouv. arch. Muséum Paris 10 1908 pp. 25-232 av. fig.

Charagia jordani sp. n. W. Australien, PFITZNER D. ent. Zs. Iris 22 p. 138.

Chilena oberthuri sp. n. Tunis, Lucas Paris Bul. soc. ent. 1909 p. 71.

Chionaema formosana Formosa, asticta Queensland, p. 355, phaeocraspis Louisiade Arch. p. 356, spp. n., Hampson Ann. Nat. Hist. 4.

Chionopsyche gen. n., montana sp. n. Deutsch Ostafrika, Aurivillius Ark. Zool. 5 No. 5 pp. 10-11 f. 44.

Chiromachla subg. n. vide Deilemera.

Chrysopsyche leucostigma sp. n. Ruwenzori pl. iv f. 21 & p. 131, Hampson Tr. 2001. Soc. 19.

Chrysostola atridorsata sp. n. Br. Guiana, Hampson p. 347 Aun. Nat. Hist. 4.

Cifuna locuples metamorphosis, (Japanese), NAGANO Konch. Sek. 13 pp. 311-315.

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Cleis atata sp. n. Ké isld., Swinhor p. 95 Ann. Nat. Hist. 3.

Closterothrix sikorae Madagaskar, Aurivillius Ark. Zool. 5 No. 5 p. 21– 22.

Cnethocampa; the type, Charman p. 230 Ent. Rec. 21.—C. pityocampa in Galicia, Garcia-Varela p. 192 Bol. Soc. espan. 9.

Cnidocampa flavescens life history, DYAR Proc. Ent. Soc. Washington 11 pp. 162-170 pl. xiv.

Comacla senex, Niederösterreich, Preissecker Verh. z.-b. Ges. Wien 59 p. (231); ab. fumosa, Bankes p. 60 Entomologist 42.

Copaxa anestios sp. n. patria incerta, Weymer D. ent. Zs. Iris 22 p. 33.

Correbia flavata sp. n. Colombia, Druce p. 458 Ann. Nat. Hist. 3,

Cosmosoma notosticta Colombia, phoenicophora Fr. Guiana, spp. n., Dognin p. 214 Ann. Soc. ent. Belgique 53.

Cossus cossus, Biologie, Schaden, Bekämpfung in Russland, Schreiner Trd. b. entom. učen. kom. Gl. Upr. Zeml. 6 3 1908 pp. 1-23 + 1 10 fig. i. T.

Craspia gen. n. nahe Crinocraspeda Hampson, wahlbergi f. 48 Deutsch S.W. Africa, marshalli Mashonaland, igneocincta Angola, spp. n., Aurivillius Ark. Zool. 5 No. 5 pp. 20-21.

Creatonotus koni sp. n. Japan, MIYARE Tokyo Bull. Coll. Agric. 8 pp. 153-174.

Cricula andrei n.n. for zuleika Westw. p. 301, larva and subsp. n. p. 303, trifenestrata subspp. n. pp. 305 & 306 JORDAN Nov. Zool. 16.—Cricula, Zucht, ENGLISCH Ent. Zs. 23 pp. 120.

Cybosia mesomella var. n. flava Steiermark, Preissecker Wien Verh. Zool. Bot. Ges. 59 p. 231.

Cyrtogone trefurthi O. Afrika, camerunensis Kamerun, spp. n., Strand Ent. Rdsch. 26 p. 107.

Dasychira trapezimaculata sp. n. Africa, Strand Arch. Natg. 75 Bd 1 p. 311.

Dasylophia roberta sp. n. Mexico, DYAR Proc. Ent. Soc. Washington 11 p. 26.—D. russula sp. n. Fr. Guiana, DOGNIN p. 78 Ann. Soc. ent. Belgiquo 53. Deilemera; revision with subgenn. n. Chiromachla and Podomachla p. 326 and numerous abb. n., transitella p. 336, arieticornis p. 346, Africa, virgo Madagascar, ugandicola, p. 348, camerunica p. 351, Africa, spp. n., Strand Ann. Soc. ent. Belgique 53.

Delphyre roseiceps sp. n. Fr. Guiana, Dognin p. 217 Ann. Soc. ent. Belgique 53.

Demolis flavithorax sp. n. Amazons, ROTHSCHILD p. 269 Nov. Zool. 16.

Dendrolimis (!) pini, aberratives Q, MARSCHNER D. ent. Zs. Iris 22 p. 140.

Diacrisia arctichroa sp. n. New Guinea, Druce p. 347 Ann. Nat. Hist. 3.—D. rhodophilodes Formosa, neurographa W. China, spp. n., Hampson Ann. Nat. Hist. 4.—D. simanensis, moltrechti, spp. n., Japan, Miyake Tokyo Bull. Coll. Agric. 8 p. 153-174.
—D. inaequalis, habits (Japanese), Mukogawa Konch. Sek. 13 p. 365-368.
—D. melanodisca pl. iv figs. 5 & 6 & p. 105, Hampson Tr. zool. Soc. 19.

Dicentria florella sp. n. Peru, DRUCE p. 466 Ann. Nat. Hist. 3.—D. simplex sp. n. Paraguay, DOGNIN p. 80 Ann. Soc. ent. Belgique 53.

Dicranura vinula var. fennica, REIN-BERGER Intern. ent. Zs. 3 p. 27; var. n. fennica, Schultz Intern. ent. Zs. 2 p. 287; parassiti, Martelli Portici Boll. Lab. 2001. 3 pp. 239-260 12 fig.

Diospage semimarginata, steinbachi, violitincta, p. 295, engelkei p. 296, spp. n., S. America, Rothschild Nov. Zool. 16.

Diota reticulata sp. n. Ruwenzori pl. iv f. 35 & p. 117, Hampson Tr. zool. Soc. 19.

Diplura affinis sp. n. Madagaskar, Aurivillius Ark. Zool. 5 N. 5 pp. 28-29.

Dixophlebia holophoea sp. n. Br. Guiana, Hampson p. 346 Ann. Nat. Hist. 4.

Dycladia xanthobasis sp. n. Br. Guiana, HAMPSON p. 346 T.c.

Ecpantheria andromela sp. n. Mexico, Dyar Proc. Ent. Soc. Washington 11 pp. 20-21.—E. indecisa Walk., ICHES Paris Bul. soc. nat. acclimat. 55 1908 pp. 346-347. Eilema urvilinea p. 340, voeltzkowi, nigr ciliata, p. 341, spp. n. Madagaskar, Aurivillius Reise Ostafrika Bd. 2.

Elaphrodes gen. n. near Phalera, nephocrossa sp. n. Ituri forest, Bethune-Baker p. 423 Ann. Nat. Hist. 3.

Eligma narcissus, die ersten Stände, STRAND D. ent. Zs. Iris 22 p. 183.

Elysius felderi, terraoides, spp. n., Peru, Rothschild p. 275 Nov. Zool. 16.—E. castanea p. 226, fuliginosus, tricyphoides, pseudotricypha, p. 227, spp. n., S. America, Rothschild Ann. Nat. Hist. 4.—E. pseudodryas p. 210, anmaloides, atrobrunnea, magnifica, p. 211, terranea p. 212, spp. n., S. America, Rothschild T.c.

Emarginea niphoplaga sp. n. Colombia, DRUCE p. 346 Ann. Nat. Hist. 3.

Enydra Wlk. und Rhanidophora Wllgr., zwei verschiedene Gattungen, STRAND D. ent. Zs. 1909 pp. 667-668.

Eohemera obscurascens, sulphureovittata, spp. n., Africa, Strand p. 353 Ann. Soc. ent. Belgique 53.

Epicnaptera alice sp. n. Syr-Darja, John p. 175 Entomologist 42.

Epiphora magdalena sp. n. Usambara, Grünberg D. ent. Zs. 1909 p. 130.— E. boolana sp. n. Boola, Strand Arch. Natg. 75 Bd 1 p. 308.

Epitoxis albicincta pl. iv figs. 1 & 2 & p. 104, Hampson Tr. zool. Soc. 19.

Eriostepta beata sp. n. Fr. Guiana, Dognin p. 219 Ann. Soc. ent. Belgique 53.—E. fulvescens sp. n. S. America pl. iv f. 28 p. 27, Rothschild Nov. Zool. 16.

Estigmene ochreomarginata sp. n. Centr. Africa, Bethune-Baker p. 429 Ann. Nat. Hist. 3.

Eucereon metaloba p. 348, perstriata p. 349, spp. n., Peru, Hampson Ann. Nat. Hist. 4.

Euchloris ochrella sp. n. O.-Afrika, STRAND Ent. Rdsch. 26 p. 108.—E. difficta metamorphosis (Japanese), NAGANO Konch. Sek. 13 pp. 91-93.

Euclea vericrux sp. n. Mexico p. 156, larva p. 157, Dyar Proc. Ent. Soc. Washington 11. Eulophonotus characters p. 8, myrmeleon sexes and larva pl. i f. 3 & p. 9, Trimen Tr. ent. Soc. London 1909.

Eumenogaster pseudopolybia sp. n. Paraguay, Schrottky D. ent. Zs. Iris 22 p. 135.

Eumeta ngarukensis sp. n. O.-Afrika, STRAND Intern. ent. Zs. 3 p. 130.

Euprepria oerten. lutescens, and cremonai abb. n., Culot p. 271 Bull. Soc. ent. France 1909.

Euproctis croccisticta pl. iv f. 44 & p. 116, melalepia f. 43 & p. 117, spp. n. Ruwenzori, Hampson Tr. zool. Soc. 19.—E. mediosquamosa sp. n. Congo, Bethune Baker p. 428 Ann. Nat. Hist. 3.

Eupseudosoma grandis pl. iv f. 23, albescens f. 25, spp. n., S. America, aberrans Schaus f. 24, Rothschild p. 26 Nov. Zool. 16.

Exacreta ulmi, in Südtirol, WAGNER Ent. Zs. 22 p. 208.

Gargetta concolora sp. n. Congo, BETHUNE-BAKER p. 424 Ann. Nat. Hist. 3.

Gastropacha guercifolia var. n. sibirica Tomsk, Semiretschje, Krulikovskij Rev. russ. ent. 9 p. 111.

Gisara complicata p. 82, albolimbata p. 83, spp. n., S. America, Dognin Ann. Soc. ent. Belgique 53.

Gonobombyx vespertilio sp. n. O.-Afrika, Weymer D. ent. Zs. Iris 22 p. 20.

Gonodes obliqua sp. n. Colombia, DRUCE p. 346 Ann. Nat. Hist. 3.

Gonotrephes gen. n. Syntomidae type Thyrarctia friga Druce, HAMPSON p. 348 Ann. Nat. Hist. 4.

Goodia oriens sp. n. Ruwenzori pl. iv f. 42 & p. 129, HAMPSON Tr. zool. Soc. 19.—G. septiguttata sp. n. O.-Afrika, WEYMER D. ent. Zs. Iris 22 p. 14.

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Hepialidae; Popular notes on, WINN Canad. Ent. 41 pp. 89-93.

Hepialus armoricanus from Tibet, Oberthür p. 250 Bull. Soc. ent. France 1909.—H. pyrenaicus, Rondou Toulouse Bul. soc. Ramond 3 pp. 37-40.

Heterocampa viridiflava p. 80, normula p. 81, spp. u., S. America, Dognin Ann. Soc. ent. Belgique 53.

Hippia albopicta, viridans, spp. n. S. America, Dognin p. 78 Ann. Soc. ent. Belgique 53.

Holomelina cyana sp. n. Colombia, Dognin p. 222 Ann. Soc. ent. Belgique 53.

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Homoeomeria nivea sp. n. Ins. Pemba, Aurivillius Reise Ostafrika Bd 2 p. 338.

Hoplitis phyllocampa sp. n. Durban, p. 4 pl. i f. 2 with larva, TRIMEN Tr. ent. Soc. London 1909.

Hyalaethea bivitreata sp. n. Tenimber, Hampson p. 344 Ann. Nat. Hist. 4.

Hyaleucerea leucoprocta sp. n. Fr. Guiana, Dognin p. 217 Ann. Soc. ent. Belgique 53.

Hyalina lucasi sp. n. Algeria, TRAUT-MANN Intern. ent. Zs. 2 p. 316.

Hylemera melusine sp. n. Sigirri, STRAND Arch. Natg. 75 Bd 1 p. 310.

Hylophila prasinana, Bildung des Cocons, HAVERHORST Tijdschr. Ent. 52 pp. 14-18.

Hyparpax perophoroides (?), larva, Dyar Proc. Ent. Soc. Washington 11 p. 171.

Hyperthaema hoffmannsi sp. n. Amazons, Rothschild p. 223 Ann. Nat. Hist. 4.

Hyphantria atripes sp. n. Gold coast, HAMPSON p. 362 Ann. Nat. Hist. 4.

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Langueys nigropuneta sp. n. Colombia, Druce p. 345 Ann. Nat. Hist. 3.

Lasiocampa quercus vir. alpina Winterzucht derselben, Schmidt Ent. Zs. 20 pp. 79-80; gynandromorph, Gillmer Intern. ent. Zs. 3 p. 31.

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. Liparis monacha Häutungen, Entwicklungsdauer, CALMBACH Ent. Zs. 23 p. 102.

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Lymantria monacha aus dem Ei, Boin Intern. ent. Zs. 3 p. 10; Abnormität, Auel Berliner ent. Zs. 54 p. 43 & pl. i f. 11; Variabilität der Flügelfarbe, Auel Zs. wiss. Insektenbiol. 5 pp. 158-163 183-186; Bilateralgynandromorph, Noack Intern. ent. Zs. 3 p. 140; Lebensweise und Bekämpfung, Sedlaozek ZentrBl. Forstwes. 35 pp. 145-164 193-212 241-261; L. monacha, Böhmen, Sedinko Cas, České Spol. Entomolog 1909 p. 98; hybrids, Brake Ent. Zs. 23 pp. 156-158.

Lysana parvipuncta, oculata, spp. n., S. America, Dognin p. 76 Ann. Soc. ent. Belgique 53.

Macrothylacia rub Zueht, GADOLLA Graz Mitt, Natw. Ver. Steierm. 45 p. 443.

Malacosoma neustria, ponte, chrysalides multiples, Postel Paris Bul. soc. ent. 1909 p. 90.

Malocampa albimacula sp. n. Fr. Guiana, Dognin p. 82 Ann. Soc. ent. Belgique 53.

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Neoarctia beanii larva, Gibson p. 400 Canad. Ent. 41.

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Parasa charopa sp. n. Congo, BETHUNE-BAKER p. 426 Ann. Nat. Hist.

Parasemia plantaginis Lokalform, SCHAWERDA Wien JahrBer. Entom. Ver. 19 pp. 85 126.

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Pentobesa? falsimonia sp. n. Fr. Guiana, Dognin p. 75 Ann. Soc. ent. Belgique 53.

Pericallia matronula, LANGENBACH Intern. ent. Zs. 3 p. 136.

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Phaegorista agaristoides var. n. interrupta Boola, Strand Arch. Natg. 75 Bd 1 p. 310.

Phaio acquiguttata Colombia, quadriguttata Ecuador, spp. n., Dognin p. 216 Ann. Soc. ent. Belgique 53.

Phalera princei sp. n. Usambara, Geünberg D. ent. Zs. 1909 p. 131.

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Pseudopharus hades sp. n. Colombia, Dognin p. 221 Ann. Soc. ent. Belgique 53.

Psychidae; Revision der deutschen Gattungen, Linstow Berliner ent. Zs. 54 pp. 89-102 & pl. ii; Zählebigkeit von Psychidenraupen, TRAUTMANN Intern. ent. Zs. 3 p. 177; La psychestomoxelle, Noel Naturaliste Paris 30 p. 274.

Pygaera voeltzkowi sp. n. Ins. Pemba, Aurivillius Reise Ostafrika Bd 2 p. 336.

Pygarctia pterygostigma sp. n. Mexico, Dyar Proc. Ent. Soc. Washington 11 p. 21.

Ramesa macrodonta sp. n. Africa pl. iv f. 38 & p. 119, Hampson Tr. Zool. Soc. 19.

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Salluca virens sp. n. Brit. Guiana, Dognin p. 79 Ann. Soc. ent. Belgique 53.

Saturnia carpini, Cottam Lanc. Nat. 2 p. 30.—S. paronia, Ab., KAUFMANN Ent. Zs. 22 p. 182; Abnorme Raupen, FRINGS Bonn SitzBer. Ges. Natk. 1908 Bot.-zool. Ver. p. 65; L'oeuf, Mus-CHAMP Genève Bull. Soc. lépidopt. 1905 p. 37.—S. pyri, EBENDORFF Intern. ent. Zs. 3 p. 159.—S. pyri ab. n. invittata, ab. n. fulvescens, f. n. subdiaphana, spini ab. n. fusca, ab. n. contigua, ab. n. oblitescens, ab. n. microphthalmica, f. n. subhyalina, pavonia ab. n. flavomaculata, ab. n. defixa, ab. n. ochreofasc ata, ab. n. decorata, ab. n. saturatior, ab. n. erythrina, ab. n. angustata, ab. n. conversa, ab. n. defasciata, ab. n. indentata, ab. n. reducta, ab. n. makropis, Schultz Ent. Zs. 23 pp. 3C-38.—S. pernyi, habits (Japanese), NAGAOKA Rep. Japan Sericultural Ass. 203 pp. 15-17.

Saturniidae in Japan (Japanese), Niwa Rep. Japan Sericultural Ass. 206 pp. 15-17.—Notes on the parasites, FISKE & THOMPSON J. Econ. Ent. 2 pp. 450-460

Saurita hemiphaea sp. n. Fr. Guiana, DOGNIN p. 215 Ann. Soc. ent. Belgique 53.

Schausinna gen. n. Typus Lasiocampa clementis Schaus, Aurivillius Ark. Zool. 5 No. 5 p. 14 f. 46.

Schizura apicalis (?), larva, DYAR Proe. Ent. Soc. Washington 11 p. 104.

Scopelodes anthela sp. n. Java, Swinhof p. 95 Ann. Nat. Hist. 3.

Secusio sansibarensis sp. n. Africa, STRAND p. 355 Ann. Soc. ent. Belgique 53

Seirarctia metaxantha sp. n. Transvaal, Hampson p. 363 Ann. Nat. Hist. 4.

Sericaria mori, Entwicklung des Rückengefässes, Verson Zool. Anz. 34 pp. 312-316.—S. mori nuova razza, Pasqualis Venezia Atti Ist. ven. 68 pp. 322-335.

Seripha plumbeola sp. n. Cuba, Hampson p. 356 Ann. Nat. Hist. 4.

Setina ramosa v.r. n. catherinei, Oberthür Paris Bul. soc. ent. 1908 p. 291.

Siccia atriguttata sp. n. Angola, Hampson p. 356 Ang. Nat. Hist. 4.

Skaphita crocea sp. n. Fr. Guiana, Dognin p. 80 Ann. Soc. ent. Belgique 53.

Soloe disticta sp. n. Uganda, BETHUNE-BAKER p. 429 Ann. Nat. Hist. 3.

Somabrachys, larval peculiarities, Jordan p. 331 Nov. Zool. 16.

Sphecosoma melapera sp. n. Colombia, DOGNIN p. 213 Ann. Soc. ent. Belgique 53.

Sphingicampa smithii sp. n. Brazil, Ehrmann p. 87 Canad. Ent. 41.

Spilosoma mendica, bilateralgynandromorph, Bocklet Intern. ent. Zs. 3 p. 96.

Stenilema gen. n. Lithosianae p. 352, aurantiaca sp. n. Abyssinia p. 353, Hampson Ann. Nat. Hist. 4.

Stenophatna gen. n., marshalli sp. n. Mashunaland, Aurivillius Ark. Zool. 5 No. 5 pp. 27-28.

Stenosaura gen. n. p. 119 Notodontidae for impedita Walk., figured pl. iv f. 45, Hampson Tr. zool. Soc. 19.

Sthenopis thule, metamorphoses Swaine Canad. Ent. 41 pp. 337-343 pl. x.

Stidzaerus gen. n. Arctianae typo strigifera Druce, Hampson p. 364 Ann. Nat. Hist. 4. Stracena bolivari sp. n. Spanish Guinea, Khell p. 492 Mem. Soc. espan. 1.

Syntarctia fasciata p. 227, russus p. 228, spp. n., S. America, Rothschild Ann. Nat. Hist. 4.

Syntomis triangulata sp. n. Beyrouth, CULOT p. 271 Bull. Soc. ent. France 1909.—S. alicia var. n. apicalis O.-Afrika, STRAND Ent. Rdsch. 26 p. 109.

Taragama superba p. 15 Cameroon, abyssinica p. 16 Abyssinien, congoense p. 16, gamma p. 17, Congo, spp. n., Aurivillius Ark. Zool. 5 No. 5.—T. indicus p. 148 pl. vi fig. 1, andulosa p. 157 pl. ix fig. 2-3, spp. n., Conte Trav. Lab. étud. soie 13.—T. diplocyma sp. n. Ruwenzori pl. iv f. 30 & p. 130, Hampson Tr. zool. Soc. 19.

Teracotona flavipennis ab. n. ruftpennis O.-Afrika, STRAND Ent. Rdsch. 26 p. 115.

Tessellarctia distincta sp. n. Amazons, Rothschild p. 207 Ann. Nat. Hist. 4.

Tetraphleps rupceps sp. n. Ruwenzori pl. iv f. 36 & p. 133, Hampson Tr. zool. Soc. 19.

Thaumetopoea apologetica sp. n. O.-Afrika, Strand Intern. ent. Zs. 3 p. 196.—T. processionea, Reinberger Intern. ent. Zs. 2 p. 269.

Trichopisthia gen. n. Typus Lasiocampa monteiroi Druce, Aurivillius Ark. Zool. 5 No. 5 p. 15 f. 47.

Tricypha nigrescens sp. n. Paraguay, Rethschild p. 275 Nov. Zool. 16.

Tripura vo'zi sp. n. Sumatra, Wey-MER D. ent. Zs. Iris 22 p. 25.

Trisulopsis gen. n. für Trisula clathrata Grünb., STRAND Ent. Rdsch. 26 p. 141.

Tuerta (Misa) ruspina sp. n. Franz. Congo, Aurivillius Ark. Zool. 5 No. 5 pp. 9-10 f. 43.—T. insulicola sp. n. Trinidad, Hampson p. 365 Ann. Nat. Hist. 4.

Turuptiana affinis, ockendeni, p. 296, bricenoi p. 297, spp. n., S. America, Rothschild Nov. Zool. 16.

Volgarctia Alph., Synonym mit Palparctia, Krulikovskij Rev. russ. ent. 8 p. 274.

Xanthospilopteryx limbomaculata sp. n. O.-Afrika, Strand Soc. entomol. 24 p. 108.

Zana trifasciata sp. n. Ruwenzorf pl. iv f. 37 & p. 118, Hampson Tr. zool. Soc. 19.

Zatrephes rosacea pl. iv figs. 29 & 30 p. 27, klagesi f. 31, varieyata f. 32, flavipuncta f. 33, irrorata f. 34, p. 28, cruciata f. 35, rufescens, ockendeni f. 36, p. 29, brunnea, griseorufa f. 37, binotata f. 38, p. 30, bilineata f. 39, foliacea figs. 41-43, subflavescens pl. v f. 1, p. 31, gigantca f. 2, albescens f. 3, nitida f. 5, miniata f. 6, p. 32, sublutescens f. 7 p. 33, spp. n., S. America, bilineata rufobrunnea subsp. n. pl. iv f. 40 p. 31, ROTHSCHILD NOV. Zool. 16.

Zeuzera pyrina, Biologie, Schaden, Bekämpfung in Russland (Russ.), SCHREINER Trd. b. entom. učen. kom. Gl. Upr. Zeml. St. Peterburg 6 3 1908 (1-23 + 1 mit 10 fig. i. T.).

Zygaena; new forms, Dziurzyński Wien Jahrber. Entom. Ver. 19 pp. 135–136; Variationen, Dziurzyński T.c. p. 143; Zygaena, palacarktischen Arten, Dziurzyński Berliner ent. Zs. 53 pp. 250–253; Raupen, Dziurzyński Intern. ent. Zs. 3 pp. 64–65; Z. purpuralis, Trautmann Intern. ent. 2s. 2 p. 295; exulans, dunkle Stücke, Trautmann Intern. ent. Zs. 2 p. 295; exulans, dunkle Stücke, Trautmann Intern. ent. Zs. 2 p. 296; Zygaena, Kopula, verschiedenen Arten, Meder Intern. ent. Zs. 3 p. 27; astragali abb. n. flara and flaveola Schwäbische Alb, Kaufmann Ent. Zs. 23 p. 121; canniolica var. n. rhodeophaia Mödling, Schawferda Wien Verh. Zoolbot. Ges. 59 p. 326; jucunda, segregata ab. n. simplex, pheretes ab. n. minor and ab. n. pupillata etc.; Muschamp Bul. Soc. Lép. Genève 1 p. 366–369.

NOCTUIDAE.

Catalogue of Noctuidae; Acronyctinae pt. 2; Hampson Cat. Lep. Phal. 8.

Part i of an iconography of European Noctuidae has been issued by Culot of Geneva.

Bestimmungstabellen für die Noctuiden Russlands Lief iii (Russ.), SINEGUB pp. 1-160 18 cm. 0,35 Rub.

The genitalia of & Noctuidae, British species, Pierce 100 pp. & 32 pls. Liverpool 1909.—Review, Chapman Entomologist 42 pp. 102-104.

Neues Sinnesorgan am Abdomen der Noctuiden, Deegener Zool. Jahrb. Anat. 27 pp. 631-650 1 Taf. Aboricornis chrysopepla pl. iv f. 12 & p. 106, Hampson Tr. zool. Soc. 19.

Acantholipes ochrota sp. n. Ruwenzori pl. iv f. 23 & p. 113, Hampson T.c.

Acopa incana pl. exxxii f. 29 & p. 411, perpallida f. 30 & p. 412, Hampson Cat. Lep. Phal. 8.

Acosmetia arida sp. n. Egypte, JOANNIS Paris Bul. soc. ent. 1909 p. 70. —A. tenuipennis sp. n. Formosa p. 412 & pl. exxxiii f. 1, arida f. 2 & p. 414, HAMPSON Cat. Lep. Phal. 8.

Acronycta albiorbis Travancore p. 74, albistigma Japan pl. exxv f. 12 & p. 93, spp. n., incretata n. n. for increta Butl. p. 109, cyanescens Canada pl. exxvi f. 5 & p. 129, pulverosa Japan (= pruinosa Leech nec Guen.) f. 9 & p. 133, spp. n., chionochroa n. n. for lepusculina Sm. & D. nec Guen. f. 13 & p. 136, metaxantha sp. n. W. China pl. cxxvi f. 17 & p. 139; theodora pl. cxxiv f. 9 & p. 62, mansueta f. 10 & p. 63, hemileuca f. 11 & p. 64, vinnula f. 12 & p. 65, paupercula f. 13 & p. 66, lepctita f. 14 & p. 67, parallela f. 15, albarufa f. 16, p. 68, connecta f. 17 & p. 69, exilis f. 18 & p. 70, modica f. 19, ovrta f. 20 p. 71, haesitata f. 21 & p. 72, hasta f. 22 & p. 73, marmorata f. 23 & p. 74, crenulata f. 24 & p. 76, fragilis f. 25, liturata f. 26, p. 77, brumosa f. 27 & p. 78, inclara f. 28, clarescens f. 29, p. 80, minella f. 30 & p. 81, superans f. 31 & p. 82, subochrea f. 32 & p. 83, noctivaga pl. exxv f. 1 & p. 84, carbonaria f. 2 & p. 85, afflicta f. 3 & p. 86, humamelis f. 4 & p. 87, increta f. 5, retardata f. 6, p. 88, caesarea f. 7 & p. 89, impleta f. 8, illita f. 9, p. 90, pruinosa f. 10 & p. 91, consanguis f. 11 & p. 92, albistigma f. 12 & p. 93, catocaloida f. 13 & p. 95, quadrata f. 14, strigulata f. 15, p. 101, thoracica f. 16 & p. 102, laetifica f. 17 & p. 103, lobeliae f. 18 & p. 104, manitoba f. 19, furcifera f. 20, p. 105, maxima f. 21 & p. 112, iria f. 22 & p. 113, taurica f. 23 & p. 115, eldora f. 24 & p. 118, tritona f. 25 & p. 119, falcula f. 26, elizabeta f. 27, p. 120, revellata f. 28 & p. 121, grisea f. 29 & p. 122, funeralis f. 30 & p. 124, morula f. 31 & p. 125, transversata f. 32 & p. 126, tota pl. exxvi f. 1, radeliffei f. 2, p. 127, felina f. 3 & p. 128, frigida f. 4 & p. 129, pacifica f. 6, interrupta f. 7, p. 130, spinigera f. 8 & p. 131, canadensis f. 10, cinderella f. 11, p. 135, lepusculina f. 12 & p. 136, populi f. 14 & p. 137, similana f. 15, gastridia f. 16,

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Acroria mexicana sp. n. Jalapa p. 278 pl. cxxix f. 4, denterna f. 3 & p. 277, diminuta f. 5 & p. 279, Hampson Cat. Lep. Phal. 8.

Acroriodes gen. n. for diplolopha Dr., HAMPSON p. 279 T.c.

Agriopodes gen. n. p. 38, type Moma fallax, geminata p. exxiii f. 27 & p. 39, tybo f. 28, viridata f. 29 p. 40, Hampson T.c.

Agrotis elaeopis pl. iv f. 7 & p. 106, HAMPSON Tr. zool. Soc. 19.—A. formosensis sp. n. Formosa, Hampson p. 369 Ann. Nat. Hist. 4.—Agrotis; Entwicklungsstillstand oder Sommerruhe, RANGNOW Berliner ent. Zs. 53 pp. 295-296.—A. cinerea, Biologie, Šrdínko Čas. České Spol. Entomolog. 1909 pp. 153-158.—A. constanti, Mœurs et métamorphoses, Brown Paris Ann. soc. ent. 78 pp. 1-4 fig.—A. corticea, Zwitter, RAMME Intern. ent. Zs. 2 p. 313.—A. cursoria, Formen, RIESEN Berliner ent. Zs. 54 p. (5).—A. latens, Biologie und Zucht, Srdínko Intern. ent. Zs. 2 p. 259; Biologie, Srdínko Čas. České Spol. Entomolog. 1908 p. 87 .- A. lucipeta Lebensweise und Zucht, Srdínko Intern. ent. Zs. 3 pp. 89-90 95; Biologie, SRDÍNKO Cas. České Spol. Entomolog. 1909 p. 4 .-A. margaritacea, Srdínko Čas. České Spol. Entomolog. 1908 pp. 55-58.—A. molothina in der Senne, LANDWEHR Ent. Zs. 23 p. 128; Verbreitung im Deutschland, WARNECKE Ent. Zs. 23 p. 90.—A. peterseni nom. n. pro eversmanni, Krulikovskij Rev. russ. ent. 8 p. 272.—A. segetum Biologic, Beschreibung, Parasiten, Futterpflanzen, Bekämpfung in Russland, Rassikov Trd. b. entom. učen. kom. Gl. Upr. Zeml. 6 5 pp. 1–122 4 Taf.; Schaden und Auftreten in Südrussland, Ei, Merkmale der Raupe und Puppe, Schreiner Selisk. choziain 24 p. 935 etc.; Schaden an Runkelruben, Vasiljev Věstn. sach. promyšl. 10 pp. 565–570; Dauer der Metamorphose, Flug, Bekämpfung, Pospélov Véstn. sacharn. promyšl. 10 pp. 130–135 172–177; im Gouv. Charikov, Lebensgeschichte, Generationen etc., Kurdinmov Charikov 1908 p. 31; A. segetum, trifolii, Verwandlung, Zeit des Auftretens, Schaden, Bekämpfung im Gouv. Kiev, Pospélov Choziajstov 4 pp. 152–165 199–207.

Aiteta escalerai sp. n. Spanish Guinea, Kuell p. 494 Mem. Soc. espan. 1.

Amiana continens pl. exxxvi f. 25 & p. 539, niama f. 26 & p. 540, Hampson Cat. Lep. Phal. 8.

Amphidrina pexicera sp. n. Cape Colony p. 295, glaucistis pl. exxix f. 7 & p. 296, spaelotidia f. 8 & p. 297, HAMPSON T.c.

Andropolia illepida pl. ccxvii f. 30 & p. 200, pulverulenta f. 31 & p. 201, pallifera f. 32 & p. 202, dispar pl. cxxviii f. 1 & p. 203, ochracea f. 25, olorina f. 29, p. 204, aedon f. 5 & p. 205, extincta f. 8 & p. 206, maxima f. 32 & p. 207, acera f. 4 & p. 208, HAMPSON T.C.

Angitia albirufa sp. n. Peru, DRUCE p. 464 Ann. Nat. Hist. 3.

Antaplaga subfumosa sp. n. Mexico, DYAR Proc. Ent. Soc. Washington 11 p. 25.

Anumeta and Palpangula synonymy, distinguished from Melipotis, John p. 116 Rev. russe Ent. 9.

Anydrophila gen. n. for part of Palpangula, John Rev. russ. ent. 9 pp. 123-125.

Arcyophora clathrimaculata, piperitella, spp. n., Zambesi, Strand Arch. Natg. 75 1 p. 380.

Arcyothora mesonephele sp. n. Congo, BETHUNE BAKER p. 431 Ann. Nat. Hist. 3.

Ariathisa semiluna pl. iv f. 13 & p. 107, Hampson Tr. zool. Soc. 19.—A. chionopasta pl. cxxxi f. 22 & p. 393, heterogama pl. cxxxii f. 17 & p. 404,

adelopa f. 23 & p. 407. spp. n., Australia; pelosticta pl. exxxi f. 22 & p. 383, endesma f. 23 & p. 384, cornuta f. 24, euchroa f. 25, p. 385, amathodes f. 26 & p. 386, tortisigna f. 27 & p. 390, chrysospila f. 28 & p. 391, paragypsa f. 29, gypsina f. 30, p. 392, paratorna f. 31 & p. 393, cyanoloma pl. exxxii f. 1, callimora f. 2, p. 394, etoniana f. 3, hydraecioides f. 4, p. 395, marginalis f. 5 & p. 396, microspila f. 6, atmoscopa f. 7, p. 397, confinis f. 8, poliocrossa f. 9, p. 398, porphyrescens f. 10, bistrigula f. 11, p. 399, capularis f. 12 & p. 400, atra f. 13 & p. 401, microdes f. 14 & p. 402, atrisquamata f. 15, cryphaea f. 16, p. 403, monochroa f. 180 & p. 404, adelphodes f. 19, leucosticta f. 20, p. 405, interferens f. 21, flexirena f. 22, p. 406, nycteris f. 24 & p. 407, basisticha f. 25, striolata f. 26, p 408, acallis f. 27, melanographa f. 28, p. 409; Hampson Cat. Lep. Phal. 8.

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Balsa labecula Gr. pl. exxxiv f. 2 & p. 456, Hampson T.c.

Basilodes pterochalcea p. 24, chalcotoxum, chryseochilus, p. 25, Mexico, spp. n., DYAR Proc. Ent. Soc. Washington 11.

Bleptina nephelopera sp. n. Ruwenzori pl. iv f. 26 & p. 115, Hampson Tr. zool. Soc. 19.

Bocula odontosema sp. n. Kuranda, Turner Proc. Linn. Soc. 34 p. 347.

Borolia pyrostrota pl. iv f. 10, phaeopasta f. 11, p. 106, Hampson Tr. zool. Soc. 19.—B. confluens sp. n. Nairobi, Bethune Baker p. 430 Ann. Nat. Hist. 3.—B. microsticta sp. n. Townsville, Turner Proc. Linn. Soc. 34 p. 341.

Cacyparis melanolitha sp. n. Kuranda, Turner Proc. Linn. Soc. 34 p. 344.

Calamistis obliquifascia sp. n. Ruwenzori pl. iv f. 15 & p. 108, Hampson Tr. zool. Soc. 19.

Calliodes xanthopyga sp. n. Ingham, TURNER Proc. Linn. Soc. 34 p. 345.

Callogonia Hampson; a synonym of Telesilla H.-S., John Rev. russ. ent. 9 pp. 145-147 pl. i.

Callopistria purpureofasciata ab. srdinkoana Böhmen, Joukl Čas. České Spol. Entomolog. 1908 pp. 96-100.

Calocampa mertena sp. n. Washington and British Columbia, SMITH New York J. Ent. Soc. 17 p. 61.

Calophasidia gen. n. p. 180 type Megalodes lucala Swinh., dentifera sp. n. W. Australia pl. cxxvii f. 17 & p. 182, Hampson Cat. Lep. Phal. 8.

Calpe wintgensi sp. n. O.-Afrika, STRAND D. ent. Zs. Iris 22 p. 116.

Calymnia ethiopica sp. n. Ruwenzori pl. iv f. 14 & p. 107, Hampson Tr. zool. Soc. 19.

Calymniodes acamas sp. n. Bolivia, Druce p. 459 Ann. Nat. Hist. 3.

Capnodes pyrochroa sp. n. Ituri forest, Bethune-Baker p. 432 Ann. Nat. Hist. 3.—C. silignia sp. n. Kuranda, TURNER Proc. Linn. Soc. 34 p. 347.

Caradrina avicula sp. n. Uralsk, KRULIKOVSKIJ Rev. russ. ent. 9 p. 112. —C. selini var. n. mairei Aegypten, DRAUDT Intern. ent. Zs. 3 p. 207.—C. gilva, Raupe, Püngeler Verh. z.-b. Ges. Wien 59 p. (238).

Catabena lineolata pl. exxviii f. 14 & p. 235, vitrina f. 15, terens f. 16, p. 236, Hampson Cat. Lep. Phal. 8.

Catada phaeopasta sp. n. Ruwenzori pl. iv f. 24 & p. 115, Hampson Tr. zool. Soc. 19.

Catamecia connectens pl. exxxvi f. 27, deceptrix f. 28, p. 542, minima f. 29 & p. 543, Hampson Cat. Lep. Phal. 8.

Catocala spp., life history and descriptive notes, Rowley & Berry Ent. News Philad. 20 pp. 12-18 & 127-135; Catocala, nordamerikanische Catocalen, Jagdausflug, ROTHKE Intern. ent. Zs. 2 p. 218 etc.—C. electa suffusa ab. n., GILLMER Intern. ent. Zs. 2 pp. 282-283. -C. electa var. n. subtristris, elocata abb. n. meridionalis, tenuivittata, puerpera abb. n. syriaca, tarbagata, romana, fecunda, brunnescens, senescens & demacu. lata, nupta abb. n. fida, dilutior, sponsa ab. n. florida, pacta ab. n. discolor, nymphaea ab. n. thalamos, neonympha ab. n. cohaerens, Schultz Ent. Zs. 22.-C. fraxini, Reinberger Intern. ent. Zs. 2 p. 268.—C. fulminea, Fischer Intern. ent. Zs. 2 p. 255 .- C. herodias, New Jersey, Sleight J. Ent. Soc. New York 17 p. 166.—C. nupta and puerpera, Aberrations, Kysela Polyxena 1 .-C. pacta, Reiff Intern. ent. Zs. 3 p. 169.—C. werneri sp. n. Arizona, BIE-DERMAN Ent. News 20 p. 76.

Centhrarthra gen. n., furcifera sp. n. Cape Colony, Hampson p. 284 Cat. Lep. Phal. 8.—C. requies sp. n. Mexico, Dyar Proc. Ent. Soc. Washington 11 p. 21.

Cetola rubricosta pl. exxxii f. 32 & p. 183, radiata sp. n. Natal p. 184, Hampson Cat. Lep. Phal. 8.

Chabuata crenilinea sp. n. Peru, Hampson p. 380 Ann. Nat. Hist. 4.

Chalenata ustota sp. n. Colombia, Druce p. 461 Ann. Nat. Hist. 3.

Chusaris opisthospila sp. n. Kuranda, TURNER Sydney Proc. Linn. Soc. 34 p. 355. Cirphis perstriata sp. n. Rodriguez, Hampson p. 384 Ann. Nat. Hist. 4.

Cleophana picturata sp. n. Algeria, ROTHSCHILD Ent. Zs. 23 p. 142.

Cloantha hyperici var. n. dilutior. WAGNER Ent. Zs. 23 p. 18.

Coenobia rufa oviscapt., EDELSTEN p. 108 & pl. x Ent. Rec. 21. ab. n. fusca, Bankes p. 4 Ent. Record 21.

Copicucullia ruptifascia sp. n. Transvaal, Hampson p. 384 Ann. Nat. Hist. 4.—C. luteodisca sp. n. New Mexico, Smith J. New York Ent. Soc. 17 p. 63.

Corgatha anthina sp. n. Toowomba, Turner Proc. Linn. Soc. N. S. Wales 34 p. 351.

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Dianthoecia caesia ab. pecirkai Böhmen, Jouki Čas. České Spol. Entomolog. 1908 pp. 96-100.

Dichonia aprilina var. n. xantha Frankreich, Schawerda Wien Verh. Zool. Bot. Ges. 59 p. (327).—D. chlorota sp. n. Kashmir, Hampson p. 386 Ann. Nat. Hist. 4. Diomea disticta sp. n. Ituri forest, BETHUNE-BAKER p. 433 Ann. Nat. Hist. 3.

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Epharmottomena gen. n. for Leucanitis naria, John Rev. russ. ent. 9 p. 118.

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Erastria clandestina sp. n. Kuranda, Turner Proc. Linn. Soc. N. S. Wales 34 p. 349.

Erastrioides albiguttata sp. n. Peru, Druce p. 463 Ann. Nat. Hist. 3.

Ercheia excavata sp. n. Uganda, BETHUNE BAKER p. 431 Ann. Nat. Hist. 3.

Erebus odora at Quobec, Nat. Canad. 36 p. 113 & 129.

Eremobia compitalis sp. n. Aegypten, Draudt Intern. ent. Zs. 3 p. 206.

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Eulonche lanceolaria pl. cxxvii f. 9, insolita f. 10, p. 164, Hampson Cat. Lep. Phal. 8.

Euplexia leonhardi sp. n. Algier, Rebel Wien Verh. ZoolBot. Ges. 59 pp. (330)-(333).

Eustrotia caduca, larva, DYAR Proc. Ent. Soc. Washington 11 p. 206.

Euxoa diplosticta Sandwich islds., albiorbis Mashonaland, spp. n., Hampson p. 368 Ann. Nat. Hist. 4.

Feralia furtiva sp. n. Ontario, SMITH J. New York Ent. Soc. 17 p. 57.

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Geroda leucocycla sp. n. Colombia, Druce p. 460 Ann. Nat. Hist. 3.

Glottula pankratii, Bohrraupe an Zwiebelgewächsen, Vosseller Pflanzer 4 1908 pp. 182-185.

Goenycta gen. n. for Erastria niveiguttata Hamps., Hampson p. 49 Cat. Lep. Phal. 8.

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Gortyna boreli, valid, Dumont Paris Bull. soc. ent. 1909 p. 286.

Gyrtona lophota, sp. n. Kuranda, Turner Proc. Linn. Soc. 34 p. 343.

Hadena eugrapha, mesotoma, p. 378. clavifera p. 379, spp. n., Peru, Hampson Ann. Nat. Hist. 4.—H. secalis ab. n. atrocyanea Viatka, Krulikovskij Rev. russ. ent. 9 p. 307.—H. pseudotrachea Uralsk sp. n., Krulikovskij Rev. russ. ent. 8 p. 272.—H. bathensis sp. n., ex larva, Slevogt Soc. Entom. 20 1905 p. 17.

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Haemassia gen. n. for Pyralis renalis Hübn., Hampson p. 438 Cat. Lep. Phal. 8.

Heliothis armigera, Schaden und Bekämpfungsmittel auf Sumatra, Bussy Mededeel. Deli Proefstation 3 pp. 201– 230.

Hiptelia habichi sp. n. Ostalpen, REBEL Wien Verh. ZoolBot. Ges. 59 p. 106-108.—H. habichi sp. n. Oesterreich, REBEL Ent. Zs. 22 p. 208.

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Leucania comma var. n. engadinensis, Wagner Ent. Zs. 23 p. 18.—L. pagaia pl. ii fig. 9 sp. n. The Snares, Hudson Subantaret. Isl. New Zealand 1 p. 67.

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Taeniocampa rorida Naturgeschichte, Gerwien Ent. Zs. 23 pp. 12-14; Eizucht, Siegel Intern. ent. Zs. 3 p. 31.—T. stabilis var. n. dalmatica, Wagner Ent. Zs. 23 p. 18.—T. occluna New Mexico p. 64, quinque-fasciata U.S. and Canada p. 65, spp. n., Smith J. New York Ent. Soc. 17.

Tarache micropis Parana, ochrochroa Brazil, spp. n., Druce p. 462 Ann. Nat. Hist. 3.—T. xuthosoma, pinodes, Port Darwin, Turner Proc. Linn. Soc. N.S. Wales 34 pp. 349-350.—T. niphogona sp. n. Ruwenzori pl. iv f. 17 & p. 109, Hampson Tr. Zool. Soc. 19.

Tarachidia semibrunnea sp. n. Paraguay, DRUCE p. 462 Ann. Nat. Hist. 3.

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Thyas dicoela Cairns, crimnopasta Townsville, spp. n., TURNER Proc. Linn. Soc. N.S.W. 34 p. 346.

Timora diarhoda sp. n. Transvaal, HAMPSON p. 366 Ann. Nat. Hist. 4. Toxocampa lusoria ab. fusca, KYSELA Polyxena 1.

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Troctoptera nymphula sp. n. Ussurigebiet, Rebel Wien Verh. Zool. Bot. Ges. 59 p. 375.

Thyatirodes gen. n. for Thyatiro godalma Schaus, Hampson p. 282 Cat. Lep. Phal. 8.

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Xylinissa pulverea sp. n. Peru, Hampson p. 388 Ann. Nat. Hist. 4.

Xylomoea didonea pl. exxxvi f. 24 & p. 536, Hampson Cat. Lep. Phal.

Xylomyges ochrea sp. n. Peru pl. exxix f. 1 & p. 273, peruviana pl. exxviii f. 31, sunia p. exxix f. 2 & p. 274, Hampson, T.c.—X. argus California, nicalis Washington, p. 66, tantiva Arizona p. 67, spp. n., SMITH J. New York Ent. Soc. 17.

Xylostola olivata sp. n. Ruwenzori pl. iv f. 16 & p. 108, Hampson Tr. Zool. Soc. 19.

Zethes tephraea sp. n. Kuranda, TURNER Proc. Linn. Soc. N. S. Wales 34 p. 348.

Zophochroa psoloessa sp. n. Kuranda, Turner p. 353 T.c.

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Aeschropteryx ansorgei ab. n. fulvitincta, WARREN p. 120 Nov. Zool. 16.

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Antharmostes fuscimargo sp. n. Congo, WARREN p. 112 T.c.

Anthyperythra sabulosa sp. n. Formosa, Bastelberger Ent. Zs. 23 p. 34.

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Bordeta bursadoides sp. n. New Guinea with ab. uniannulata, WARREN p. 127 Nov. Zool. 16.

Brachyprota? trigonata sp. n. Colombia, Dognin p. 226 Ann. Soc. ent. Belgique 53.

Bupalus piniarius, Zwitter, Dziur-zynski Intern. ent. Zs. 3 p. 159.

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Chesias korbi sp. n. Russ. Armenien, Bohatsch Wien Jahrber. Entom. Ver. 19 p. 163.

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Dyscia strigosissima sp. n. Angola, Bastelberger Intern. ent. Zs. 3 p. 281.

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Emmesomia formosana sp.n. Formosa, Bastelberger Ent. Zs. 23 p. 34.

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Gladela nom. n. for Sympherta Hulst, Grossbeck Ent. News 20 p. 353.

Gnophos mucidaria var. n. lusitana pl. xii figs. 16-27, Mendes Broteria 8 p. 69.—G. obscuraria f. n. atra, Linstow Berliner ent. Zs. 53 p. 239.—G. caelibaria Var., operaria Var., PIESZCZEK Wien Jahrber. Entom. Ver. 20 pp. 43-131.—G. puengeleri sp. n. Alai Geb., Bohatsch Wien Jahrber. Entom. Ver. 19 p. 163.—G. ainuaria sp. n. Formosa, Bastelberger Ent. Zs. 23 p. 33.

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Palcinodes perstrigata sp. n. Fr. Guiana, Dognin p. 232 Ann. Soc. ent. Belgique 53.

Panthera pardalaria ab. n. obliterata, WARREN p. 100 Nov. Zool. 16.

Paracomistis sterrhidopsis sp. n. Colombia, Dognin p. 232 Ann. Soc. ent. Belgique 53.

Paralophia viridilineata sp. n. Formosa, Bastelberger Ent. Zs. 23 p. 77.

Patruissa sternaria abb. n. plagicosta and insulata, WARREN p. 128 Nov. Zool. 16.

Perizoma obscurata lividata spp. n. Formosa, BASTELBERGER Ent. Zs. 23 pp. 39 & 77.—P. curvisignata sp. n. Peru, WARREN p. 91 Nov. Zool. 16.—P. exangulata sp. n. Srinagar, WARREN p. 127 T.c.

Perusia complicata ab. n. plena, WARREN p. 108 T.c.

Phacochlaena biorbiculata sp. n. Amazons, WARREN p. 72 T.c.

Phasiane glarearia ab. n. lutea Deutschl., GILLMER Soc. entom. 24 p. 59.

Phibalapteryx calligraphata, Raupe, PUNGELER Verh. z.-b. Ges. Wien 59 p. 238).—P. lapidata larva, Chapman p. 209 Ent. Rec. 21. Photoscotosia insularis subsp. n. Formosa, Bastelberger Ent. Zs. 23 p. 39.

Pisoraca leonaria Wlk. ab. n. maculata Congo, Bastelberger Intern. ent. Zs. 3 p. 101.

Pitthea internata, thalassina. spp. n., Africa trop., Warren p. 118 Nov. Zool. 16.

Pityeja fulvida, tigridata, spp. n. Peru, Warren p. 93 T.c.—P. mangifica sp. n. Peru, Bastelberger D. ent. Zs. 1909 p. 317.

Plateoplia gen. n. type Tephrinopsis ochriciliata Warr., Warren p. 120 Nov. Zool. 16.

Plegapteryx viridis sp. n. Durban, WARREN p. 122 T.c.

Poecilalcis ochrolaria sp. n. Formosa, Bastelberger Ent. Zs. 23 p. 39.

Polypoetes cistrinoides, decorata, p. 124, sublucens, Colombia, leucocrypta Venezuela, p. 225, spp. n., Dognin Ann. Soc. ent. Belgique 53.—P. vidua sp. n. Peru, Warren p. 72 Nov. Zool. 16.

Prasinocyma xanthopera sp. n. Congo, BASTELBERGER Intern. ent. Zs. 3 p. 101.

Problepsis attenuata sp. n. India, WARREN p. 126 Nov. Zool. 16.

Prohydata benepicta sp. n. Amazons, WARREN p. 84 T.c.

Prostoma stabilis sp. n. Peru, WARREN p. 105 T.c.

Psaliodes albifulva sp. n. Peru, WAR-REN p. 91 T.c.

Pseudhemithea gen. n. near Hemithea, detrita sp. n. Angola, BASTELBERGER Intern. ent. Zs. 2 p. 281.

Psilephyra gen. n. near Ephyra, bilineata sp. n. O. Afrika, BASTELBERGER Intern. ent. Zs. 3 p. 101.

. Psilocerea stictigramma pl. iv f. 54, craspigonia f. 55, p. 124, curvimargo f. 56 & p. 125, spp. n. Ruwenzori, Hampson Tr. zool. Soc. 19.

Psodos quadrifaria var. n. stenotaenia Glocknergebiet, Schwingenschuss Wien Verh. ZoolBot. Ges. 59 p. (330).

Psyra matsumurai sp. n. Formosa' BASTELBERGER Ent. Zs. 23 p. 39.

Racheolopha heteromorpha p. 84, lactecincta, lacteguttata, lunicincta, p. 85, microspila, fontalis, p. 86, spp. n., S. America, trilunaria ab. n. obsolescens p. 86, Warren Nov. Zool. 16.

Rambara dentiscripta sp. n. Molukken, BASTELBERGER Soc. entomol. 24 p. 65.

Rhodochlora albipuncta p. 87, trifasciata, ustimargo, p. 88, spp. n., Peru, bruneipalpis abb. n. minor and rufaria p. 87, Warren Nov. Zool. 16.

Rhodomena fassli, multangulata, spp. n., Colombia, Dognin p. 226 Ann. Socent. Belgique 53.—R. coronata, sphacelata, bryodes, Peru, spp. n., Bastelberger Soc. entomol. 24 p. 66.

Rhombochlora gen. n. near Racheolopha, granulata sp. n. Amazons, Warren p. 89 Nov. Zool. 16.

Scotopteryx delitescens sp. n. Formosa, BASTELBERGER Ent. Zs. 23 p. 39.

Scotura subcoerulea sp. n. Colombia, Dognin p. 225 Ann. Soc. ent. Belgique 53.—S. intermedia, fusciceps with var. n. obstructa, p. 73, longigutta, S. America, leucophleps Costa Rica, p. 74, spp. n., fulviceps ab. n. quadripuncta, p. 73, Warren Nov. Zool. 16.

Selidosema pulchella sp. n. Arizona Grossbeck p. 156 Canad. Ent. 41.—S. insaria sp. n. Florida, Dyar Proc. Ent. Soc. Washington 11 p. 27.—S. leucelaea sp. n. New Zealand, Meyrick Trans. N. Zeal. Inst. 41 p. 6.—S. lunigera, Srdinko Čas. České Spol. Entomolog. 1908 p. 18.

Semiothisa stramineata sp. n. O. Afrika, BASTELBERGER Intern. ent. Zs. 3 p. 101.—S. intaminata sp. n. Fr. Guiana, DOGNIN p. 91 Ann. Soc. ent. Belgique 53.

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Somatina fungifera sp. n. Congo, Warren p. 113 T.c.—S. discata sp. n. Hainan, Warren p. 126 T.c.

Spargania rufitaeniata sp. n. Colombia, Dognin p. 228 Ann. Soc. ent. Belgique 53.

Stamnodes splendorata sp. n. Arizona, PEARSALL p. 367 Canad. Ent. 41.

Stegania triamculata mit ab. cognataria im Elsass, Goltz Ent. Zs. 23 p. 100. Stenalcidia viridigrisea sp. n. Columbia, BASTELBERGER Intern. ent. Zs. 3 p. 82.—S. plexilinea sp. n. Fr. Guiana, DOONIN p. 90 Ann. Soc. ent. Belgique 53.

Stenaspilates levisaria sp. n. Arizona. GROSSBECK p. 196 Canad. Ent. 41— S. metzaria sp. n. California, DYAR Proc. Ent. Soc. Washington, 11 p. 27.

Stenoplastis eximia sp. n. Peru, Warren p. 74 Nov. Zool. 16.

Symphytophleps gen. n. Epipleminae, latifascia sp. n. Peru, Warren p. 69 T.c.

Syndromodes fleximargo sp. n. Angola, WARREN p. 112 T.c.

Synegia secunda sp. n. Sumatra, Swinhoe p. 91 Ann. Nat. Hist. 3.

Synegiodes ornata sp. n. Formosa, BASTELBERGER Ent. Zs. 23 pp. 34 40.

Synelis acutangula sp. n. Uganda, Swinhoe p. 94 Ann. Nat. Hist. 3.

Tachyphyle flaccida p. 89, fuscicosta p. 90, spp. n., S. America, WARREN Nov. Zool. 16.

Tephrina oleochroa sp. n. Ruwenzori pl. iv f. 49 & p. 122, Hampson Tr. zool. Soc. 19.

Tephrinopsis sordidula sp. n. Texas, BASTELBERGER D. cnt. Zs. 1909 p. 316.

Tephroclystia dissertata sp. n. Wallis, Püngeler Soc. Entomol. 20 1905 p. 138.

Tephronia sepiaria var. n. lepraria Ungarn and nigra Bozen, Rebel Wien Polyxena 4 p. 2.

Tephrosia bistorta and crepuscularia crossing etc., COCKAYNE p. 125 & pls. xi & xii Ent. Rec. xxi.

Terina chrysoptera sp. n. Ruwenzori pl. iv f. 58 & p. 126, Hampson Tr. zool. Soc. 19.—T. latifascia Walk. to Pitthea, Warren p. 118 Nov. Zool. 16.

Terpna differens sp. n. N. India, WARREN p. 124 T.c.

Thalera violetta sp. n. Congo, BASTEL-BERGER p. 441 Ann. Soc. ent. Belgique 53.

Thera sororcula sp. n. Formosa, BASTELBERGER Ent. Zs. 23 p. 34.

Therina fiscellaria var. n. peccataria Massachusetts, Swett Psyche 16 p. 96. Thyatira batis ab. n. derosea, MAURER Wien Jahrber. Entom. Ver. 20 p. 41.

Thysanopyga deprivata p. 105, longistria, spp. n., Peru, suffecta ab. n. distincta, p. 106, Warren Nov. Zool. 16.

Tornos erectarius sp. n. Arizona, GROSSBECK p. 155 Canad. Ent. 41.

Trichozoma gen. n. near Isodiscodes Warr., picaria sp. n. Columbia, BASTEL-BERGER Intern. ent. Zs. 3 p. 83.

Triphosa inconspicua, lugens, spp. n. Formosa, Bastelberger Ent. Zs. 23 p. 77.

Urapteryx sambucaria ab. n. cuspidaria, Bird p. 235 Ent. Rec. 21.

Vaëna, characters, V. eaclioides = (Ciropteryx ochreata Holl.), WARREN p. 122 Nov. Zool. 16.

Venusia, Euchoeca and Hydrelia; taxonomy, Prour pp. 93 & 94 Canad. Ent. 41.—V. charidena sp. n. Auckland Isl., Meyrick Subantarct. Isl. New Zealand 1 p. 70.

Xanthorhoe oxyptera pl. ii fig. 23 p. 67, orophylloides pl. ii fig. 12 p. 68, Campbell isld., spp. n., Hudson Subantarct. Isl. New Zealand 1.

Xanthyris involuta Amazons p. 317, supergressa Columbia p. 318, spp. n. BASTELBERGER D. ent. Zs. 1909.

Xylopteryx prasinaria sp. n. Ruwenzori pl. iv f. 57 & p. 125, Hamfson Tr. zool. Soc. 19.—X.? albicurvata sp. n. Congo, Bastelberger p. 442 Ann. Soc. ent. Belgique 53.

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Zanchlorhacos gen. n. Orthostixiinae, nigrivenata sp. n. Brasilia, BASTEL-BERGER op. cit. 2 p. 267.

Pyralidae, Thyrididae.

Acrobasis feltella sp. n. New York, DYAR p. 214 Proc. Ent. Soc. Washington 11.

Aglossa pinquinalis im Darm, Raupe, Ackermann Natw. Wochenschr. 24-pp. 43-45.

Ancylolomia palpella var. n, sovinskyi Rossia mer., Caucasus sept., Krullkovskij Rev. russ. ent. 9 p. 113.

Aphomia sociella ab. n. rufinella, Kruliyovskij Rev. russ. ent. 8 p. 274.

Argyria consortalis sp. n. Florida, Dyar Proc. Ent. Soc. Washington 11 p. 28.

Aulacodes simplicialis; metamorphosis, Muir pp. xl-xliv P. ent. Soc. London 1909.

Bostra kneuckeri sp. n. Sinai, Rebel Karlsruhe Verh. natw. Ver. 21 Abh. p. 140.

Cataclysta sambesica sp. n. Zambesi, Strand Arch. Natg. 75 l p. 384.—C. lemnata var. n. confirmata, Krull-kovskij Mater. faun. flor. Ross. 9 p. 191.

Crambus saristes p. 8, aulistes, melitastes, p. 9, Invercargill, spp. n., Meyrick Trans. N. Zeal. Inst. 41.—C. hortuellus var. n. uralellus Rossia orient., Krulikovskij Rev. russ. ent. 9 p. 113.—C. lucellus ab. n. atrax Grado, Galvagni Wien Mitt. Ver. Univ. 7 p. 237.—C. tristellus ab. n. obscoenellus, Krulikovskij Mater. faun. flor. Ross. 9 p. 182.

Cybolomia guyoti sp. n. Sinai, REBEL Karlsruhe Verh. natw. Ver. 21 Abh. p. 142.

Emmatheudes lentistrigalis sp. n. Africa trop. pl. iv f. 65 & p. 134, Hampson Tr. zool. Soc. 19.

Eupilocera gen. n., gravidalis sp. n. Fr. Guiana, Dognin p. 53 Ann. Soc. ent. Belgique 53.

Glyphodes aniferalis sp. n. Ruwenzori pl. iv f. 68 & p. 136, Hampson Tr. zool. Soc. 19.—G. incomposita sp. n. Congo, Bethune-Baker p. 437 Ann. Nat. Hist. 3.

Haimbachia gen. n. type Crambus placidellus Haimbach, Dyar Proc. Ent. Soc. Washington 11 p. 28,

Heterographis hollella, mabillella, spp. n. Tunis, Lucas p. 231 Bull. Soc. ent. France 1909.

Iesta gen. n., lisetta sp. n. Florida, Dyar Proc. Ent. Soc. Washington 11 p. 29.

Kasania gen. n. pro Nymphula arundinalis (sine diagn.), Krulikovskij Rov. russ. ent. 9 p. 316 Melissoblaptes bipunctanus var. n. sapozhnikovi Bachty, Krulikovskij Rev. russ. ent. 8 p. 274.

Minudea pallidifimbria sp. n. Fr. Guiana, Dognin p. 94 Ann. Soc. ent. Belgique 53.

Nacoleia ancylosema sp. n. Fr. Guiana, indicata ab. n. pigralis, Dognin p. 93 Ann. Soc. ent. Belgique 53.

Nephopteryx ochriplaga sp. n. Sinai, REBEL Karlsruhe Verh. natw. Ver. 21 Abh. p. 140.

Noorda anthophilalis sp. n. O.-Afrika, STRAND Ent. Rdsch. 26 p. 116.

Ocrisia robiniellae à Marseille, Siéri Feuilles jeunes natural. 39 pp. 103-104.

Oligochroides gen. n., nigritella sp. n. Zambesi, Strand Arch. Natg. 751 p. 385.

Omiodes musicola Mani p. 40, maia Oahu p. 74, spp. n., Swezey Proc. Hawaii Ent. Soc. 2.

Pelasgis semicuprealis sp. n. Fr. Guiana, Dognin p. 92 Ann. Soc. ent. Belgique 53.

Pharambara squalida sp. n. hab.?, WARREN p. 123 Nov. Zool. 16.

Phlyctaenodes sticticalis, Verspätete Entwicklung der Eier, Krasiliščik Choziaistvo 4 pp. 1286–1287; Schaden an Runkelrüben, Phänologisches aus Südrussland, Vasiljev pp. 7–11; Auftreten und Nahrung der Falter zweiter Generation pp. 141–143, Ausbleiben der Raupen zweiter Generation pp. 215–217; Einfluss der Feuchtigkeit bei der Verpuppung auf die Gestalt pp. 461–463, Eiablage, Metamorphose, Schaden an der Russkelrübe p. 747, Vasiljev Vöstn. saeharn. promyšl. 10.

Phryganodes flavipectus p. 436, stygichroa p. 437, spp. n., Congo, Bethune-Baker Ann. Nat. Hist. 3.—P. leucothyris sp. n. Fr. Guiana, Dognin p. 92 Ann. Soc. ent. Belgique 53.

Phycita? guilhemella sp. n. France, Lucas p. 232 Bull. Soc. ent. France 1909.

Phycitidae; an unnamed gen. n., Swezey p. 47 Proc. Hawaii ent. Soc. 2,

Pilocrocis nubilinea sp. n. Congo, Bethune-Baker p. 436 Ann. Nat. Hist. 3.—P. flagellalis sp. n. Fr. Guiana, Dognin p. 92 Ann. Soc. ent. Belgique 53.—P. patagialis pl. iv f. 66, laralis f. 67, spp. n. Ruwenzori, Hampson p. 135 Tr. zool. Soc. 19.

Platytes? zarcinellus sp. n. Tunis, Lucas Paris Bul. soc. ent. 1909 p. 72.

Pococera internigralis sp. n. Fr. Guiana, Dognin p. 91 Ann. Soc. ent. Belgique 53.

Polyocha rhodesiae sp. n. Zambesi, Strand Arch. Natg. 75 1 p. 384.

Polythlipta guttiferalis sp. n. Ruwenzori pl. iv f. 69 & p. 136, Hampson Tr. zool. Soc. 19.

Pristocerella nom. n. for Pristocera Rag., Kieffer p. 35 Bull. Soc. Metz 26.

Proceratia hampsonella sp. n. Tunis, Lugas p. 231 Bull. Soc. ent. France 1909.

Protyparcha gen. n. Crambidae, scaphodes sp. n. Auckland Isl., MEYRICK Subantarct. Isl. New Zealand 1 p. 71.

Psorosa gelinella sp. n. Tunis, Lucas Paris Bul. soc. ent. 1909 p. 72.

Pyralis costalis ab. n. rufescens, MATTHEW p. 136 Ent. Rec. 21.

Salebria marmorata ab. n. myochroa Viatka, Krulikovskij Rev. russ. ent. 9 p. 316.

Scirpophaga praelata, Mœurs, Reh-Fous Bull. Soc. Lép. Genève 1 p. 154.

Scoparia ambigualis ab. n. crossi, Bankes p. 58 Ent. Mag. 45.—S. dubitalis var. n. ivanalis Rossia orient., Krulikovskij Rev. russ. ent. 9 p. 113.—S. gyrotoma, cyptastis p. 7, luminatrix p. 8, New Zealand spp. n., Meyrick Trans. N. Zeal. Inst. 41.—S. triscelis p. 71, parmifera, halopis, p. 72, spp. n. Auckland Island, Meyrick Subantaret. Isl. New Zealand 1.

Staudingeria? kebiliella sp. n. Tunis, Lucas Paris Bul. soc. ent. 1909 p. 72.— S. desertella sp. n. Tunis, Lucas p. 232 T.c.

Stemmatophora flammans sp. n. Congo, BETHUNE-BAKER p. 436 Ann. Nat. Hist. 3.

Sylepta fulviceps sp. n. Congo, BETHUNE-BAKER p. 437 T.c.

Talis africanellus sp. n. O. Afrika, STRAND Ent Rdsch. 26 p. 115.—T. quercella ab. n. roburella Viatka, KRULL-KOVSKIJ Rev. russ. ent 9 p. 315.

Tephris? joannisella sp. n. Tunis, Lucas p. 232 Bull. Soc. ent. France 1909.

Tyndis fuscorufidalis sp. n. O.-Afrika, STRAND Ent. Rdsch. 26 p. 115.

Pterophoridae, Alucitidae, Orneodidae.

Adkinia graphodactyla, MATHEW p. 126 Ent. Rec. 21.

Agdistis malitiosa pl. ii f. 3 sp. n. Pretoria, Meyrick Ann. Transvaal Mus. 2 p. 4.—A. criocephala p. 349, cretifera p. 367 S. Africa, spp. n., Meyrick Ann. S. Afric. Mus. 5.—A. sinhala sp. n. Kandy, Fletcher Spolia Zeylan. 6 p. 8.

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Microschismus gen. n. Orneodidae, antennatus sp. n. S. Africa, Fletcher p. 253 Entomologist 42.

Orneodes dohertyi sp. n. E. Africa, Walsingham p. 174 Ent. Mag. 45.—O. certifica pl. ii fig. 4 sp. n. Zoutpansberg, Meyrick Ann. Transvaal Mus. 2 p. 4.

Oxyptilus vaughani, regalis, pp. 25-26, spp. n., Ceylon, FLETCHER Spolia Zeylan. 6.

Platyptilia amphiloga sp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5 p. 365. —P. isoterma sp. n. Wellington, Meyrick Trans. N. Zeal. Inst. 41 p. 10.

Polyptilus numosae & , Swierstra Ann. Transvaal Mus. 1 p. 226 pl. xxxv fig. 2.

Pselnophorus astragalotes sp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5 p. 366.

Pterophorus colubratus pl. i f. 4, verax f. 5, ammonias f. 6, p. 3, crepus-cularis pl. ii f. 2 p. 4, Pretoria, spp. n. Meyrick Ann. Transvaal Mus. 2.—P. serpens sp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5 p. 366.

Trichoptilus vivax pl. i fig. 1 p. 1, varius pl. i fig. 2, maceratus pl. i fig. 3 p. 2, Pretoria spp. n., Meyrick Ann. Transvaal Mus. 2.

Utuca prometopa sp. n. Peru, MEYRICK p. 13 Tr. ent. Soc. London 1909.

TORTRICIDAE.

Die palaearktischen Tortriciden. Eine monographische Darstellung . . . KENNEL Zoologica H. 54 1908 pp. 1-100 6 Taf.

Microlépidoptères du Valais, FAVRE Bul. Murith. 35 pp. 146-239.

Verzeichnis der im Kronlande Salzburg bisher beobachteten Microlepidopteren; MITTERBERGER Mitt. Ges. Salzburg 1909 pp. 195-552.

Drei neue Microlepidopteren; Krone Jahrber. Entom. Ver. Wien 19 pp. 129-133.

Les Chenilles des Helichrysum, Chré-TIEN Naturaliste 31 pp. 241-243 246-248 258-259.

Acrolita consequana larva etc., BANKES p. 138 Entomologist 42.

Ancylis halisparta pl. ii fig. 8 sp. n. Zoutpansberg, MEYRICK Ann. Transvaal Mus. 2 p. 6.

Archips persicana Fitch, synonym of schreberiana Stephens, melaleucana Walker synonym of biustulana Stephens, Kearfott Ent. News 20 p. 53.—A. rosaceana Harris, life history and economic notes, pp. 391-403, pls. 15-18, bibliography, Sanderson & Jackson J. Econ. Ent. 2.

Argyroploce lasiandra, tonsoria, p. 592, oedalea, diserta, p. 593, astrosema, generosa, charadroea, p. 594, citharistis, palliata, p. 595, corthyntis, caryactis, p. 596, fibrata, metactenis, p. 597, paragramma, anaplecta, cyanura, p. 598, aspidias, hyalitis, p. 599, herbosa, claviculata, p. 600, acrosema, halantha, p. 601, tetanota, rupifera, p. 602, callichlora, herbifera, p. 603, semiculta, gyrotis, p. 604, aeraria, solaris, callicratis, p. 605, tonica, dimorpha, p. 606, spp. n. India and Ceylon, Meyrick Bombay J. Nat. Hist. Soc. 19.—A. poetica, nom. n., Meyrick p. 437 T.c.

Articolla prospera sp. n. Khasis, MEYRICK, p. 591 T.c.

Asaphistis gen. n. Eucosmidae, praceps sp. n. Khasis, MEYRICK p. 590 T.c.

Atteria cantharopa sp. n. Bolivia, MEYRICK p. 14 Tr. ent. Soc. London 1909. Bactra pythonia pl. iii fig. 7 sp. n. Pretoria, Meyrick Ann. Transvaal Mus. 2 p. 9.—B. fælerata p. 582, sociata, metriacma, p. 583, copidotis, leucogama, p. 584, honesta, phenacistis, p. 585, truculenta, minima, tornastis, p. 586, spp. n., India and Ceylon, Meyrick Bombay J. Nat. Hist. Soc. 19.

Cacoecia heliaspis sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 349.— C. sphenias sp. n. Invercargill, MEYRICK Trans. N. Zeal. Inst. 41 p. 11.— C. syntona sp. n. Auckland Isl., MEYRICK Subantarct. Isl. New Zealand 1 p. 73.

Carpicapsa pomonella Futterpflanzen, Naturgeschichte, Bekämpfung, Schreiner Trd. b. entom. učen. Kom. Gl. Upr. Zeml. 5 4 1908 pp. 1-40 4 Fig.; life-history and economic notes pp. 1-32 ff. 1-8 tables i-xxxy, Jenne Bull. U.S. Dept. Agric. Ent. 80 Part 1.

Clepsis rusticana, life-history, BANKES pp. 151-154 Ent. Mag. 45.

Dipterina crypsidora sp. n. Invercargill, MEYRICK Trans. N. Zeal. Ins. 41 p. 11.

Enarmonia interstinctana, Folsom pp. 61-65 pl. ii figs. 9-11 Rep. Ent. Illinois 25.—E. prunivora life-history, FOSTER & JONES U.S. Dept. Agric. Ent. Bull. 80 Part 3 p. 45; eggs and stages, TAYLOR J. Econ. Ent. 2 pp. 237-239.—E. tristrigana food plant, FROST Psyche 16 p. 13.

Epagoge sulphureana, eggs, Webster Ent. News 20 p. 389.

Epibactra gen. n. Eucosmidae, arenosa sp. n. Ceylon, MEYRICK Bombay J. Nat-Hist. Soc. 19 p. 582.

Epiblema grandaevana var. n. laetulana p. 214, foenella ab. separana, nisella ab. albodecorana Gouv. Vjatka, Beschreibung, (Russ. + lat. Diagn), KRULIKOVSKIJ Mat. faun. flor. Ross-9 p. 215.—E. luciana sp. n. France, CHRÉTIEN Naturaliste Paris 30 1908 p. 245.

Epichorista geraeas pl. ii fig. 6 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 5.

Eucosma tremula pl. iii fig. 1 p. 6' monitrix pl. iii fig. 2, symbola pl. iii fig. 3 p. 7, calliarma pl. iii fig. 5, marmara pl. iii fig. 6 p. 8, Pretoria, spp. n.,

MEYRICK Ann. Transvaal Mus. 2.— E. (?) insolens sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 367.—E. ceriodes sp. n. Khasis, MEYRICK, Bombay J. Nat. Hist. Soc. 19 p. 607.

Eudemis botrana in Kachetien, Phänologisches, Bekämpfung, Makarašvilli Vēstn. vinodēl. 18 pp. 473-174.—E. vacciniana life-history notes, p. 47, Franklin J. Econ. Ent. 2.

Eurythecta potamias sp. n. Invercargill, Meyrica Trans. N. Zeal. Inst. 41 p. 11.

Evetria buoliana and pinicolana, BANKES p. 144 Entomologist 42; pinicolana validity, & characters, BANKES p. 3 & pl. i Ent. Record 21.—
E. sylvestrana life-history, BANKES pp. 222-226 Ent. Mag. 45.

Gauris ornatissima sp. n. Pebas, Dognin p. 94 Ann. Soc. ent. Belgique 53.

Heterocrossa thalamota sp. n. Invercargill, Meyrick Trans. N. Zeal. Inst. 41 p. 12.

Laspeyresia halmyris pl. iii fig. 9 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 9.—L. tetrasticta sp. n. Bolivia, MEYRICK p. 14 Tr. ent. Soc. London 1909.

Olethreutes bifasciana life-history, BANKES pp. 198-201 237 & 259 Ent. Mag. 45.—O. instrutana Clemens, synonym of flavofasciana Westwood, Keartott Ent. News 20 p. 50.

Pandemis albaniana Walker synonym of obliquana Fabricius? p. 55, Kearfott Ent. News 20.

Penthina sauciana phenology, BANKES p. 258 Ent. Mag. 45.

Peronea minuta life-history notes, p. 46, Franklin J. Econ. Ent. 2.—
P. bryographa sp. n. Peru, Meyrick p. 16 Tr. ent. Soc. London 1909.

Pharmacis Hubn. supersedes Euxanthis Hubn. p. 368, stigmatica sp. n. S. Africa p. 369, MEYRICK Ann. S. Afric. Mus. 5.—P. assecula pl. ii fig. 5 sp. n. Pretorii, MEYRICK Ann. Transvaal Mus. 2 p. 5.

Platynota sentana Clemens synonym of idaeusalis Walker p. 57, Kearfott Ent. News 20.

Polychrosis botrana, Lebensgeschichte, Parasiten, Schaden, Bekämpfung, SCHREINER Trd. b. entom. učen. Kom. Gl. Upr. Zeml. 5 3 pp. 1-40.1 Taf.—
P. primaria pl. iii fig. 8 sp. n. Pretoria,
MEYRICK Ann. Transvaal Mus. 2 p. 9.—
P. cerata, fallax, p. 587, anceps, gabina,
p. 588, spp. n. India & Ceylon,
MEYRICK Bombay J. Nat. Hist. Soc.
19.

Proschistis lucilera, agitata, p. 589, invida, p. 590, spp. n., India & Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. 19.

Proselena ionephella sp. n. S. Africa' MEYRICK Ann. S. Afric. Mus. 5 p. 350.

Semasia gradensis sp. n. Grado, GALVAGNI Wien Mitt. Natw. Ver. Univ. 7 p. 248.

Statherotis gen. n. Eucosmidae, decorata sp. n. Ceylon, p. 591, Meyrick J. Bombay Soc. 19.

Strepsicrates chaophila sp. n. Wellington, MEYRICK Trans. N. Zeal. Inst. 41 p. 10.

Tortrix pharetrata pl. ii fig. 7 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 6.—T. xerophanes Peru, sphaleropa, p. 15, oreographa p. 16, Bolivia, spp. n., MEYRICK Tr. ent. Soc. London 1909.

TINEIDAE.

Numerous notes on the nomenclature. which are only partially given below. WALSINGNAM & DURRANT Ent. Mag, 45 pp. 46 etc.

Notes on Chamber's species of Tineina; BRAUN Ent. News 20 pp. 428-434.

Elachistidae and Cosmopterygidae separated, MEYRICK p. 17 Tr. ent. Soc. London 1909.

Phylogeny of Lithocolletidae, Braun pp. 419-423 Canad. Ent. 41.

Aetherastis gen. n., uranias sp. n. Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. 19 p. 422.

Alavona africanella sp. n. O. Afrika, STRAND Ent. Rdsch. 26 p. 116.

Amydria arctocephala p. 363, poliodes p. 362, rapida p. 363, spp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5.— A. genistis sp. n. Bolivia, MEYRICK p. 43 Tr. ent. Soc. London 1909. Anacampsis oxyspila sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 351.

Anarsia lineatella Schädling in Südrussland, Vasiljev Choriajstvo 4 pp. 1850–1853.

Anchinia daphnella var. n. orientella Viatka, Krulikovsky Rev. russ. ent. 9 p. 321.

Antaeotricha glaciata Bolivia p. 30, melanopis Peru p. 31, spp. n., Meyrick Tr. ent. Soc. London 1909.

Apiletria haematella Feéld. merged in Hypercallia, MEYRICK Ann. S. Afric. Mus. 5 p. 355.

Argyresthia conjugella, Lampa Entomol. Tidskr. 29 1908 pp. 253-272.

Aristotelia ptilastris sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 369.—A. corallina, howardi pl. i f. 21, p. 23, squamigera, hieroglyphica, p. 24, spp. n., Mexico, WALSINGHAM Biol. Centr.-Amer. Lep. Het. 4.

Atomotricha isogama sp. n. Wellington, MEYRICK Trans. N. Zeal. Inst. 41 p. 13.

Batrachedra oemias sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 359.

Blabophanes ptilophaga sp. n. Insel St. Paul, Enderlein D. Südpolar Exped. 10 H. 4 p. 481.

Blastobasibdae; the genera with much new synonymy, Walsingham & Durrant Ent. Mag. 45 pp.46-52.

Blastobasis taricheuta sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 372.

Borkhausenia brachyacma, cenchrius, p. 13, Invercargill, spp. n., MEYRICK Trans. N. Zeal. Inst. 41.

Brachmia malacogramma pl. v fig. 2 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 14.

Brenthia malachitis p. 40, hexaselena, logistis, p. 41, spp. n. Bolivia, pavonacella Clem. p. 42, MEYRICK Tr. ent. Soc. London 1909.

Bryotropha umbrosella race new. fulvipalpella Morbihan, JOANNIS Paris Ann. soc. ent. 77 p. 793.

Catalexis gen. n. Gelechiidae p. 19, tapinota sp. n. Guatemala pl. i f. 18 & p. 20, Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Cerostoma instabilella Raupe, Krone Wien JahrBer. Entom. Ver. 19 pp. 129-133.—C. nemorella var. n. ninella Russia or., Krulikovskij Rev. russ. ent. 8 p. 275.

Chelaria albogrisea Wals. to Semodictis (q.v.), Meyrick p. 16 Ann. Transvaal Mus. 2.

Choreutis? ultimana Gouv. Viatka sp. n. Krulikovskij Rev. russ. ent. 8 p. 275.—C. hymenaea p. 38, lapidaria p. 39, spp. n. Bolivia, MEYRICK Tr. ent. Soc. London 1909.

Chrysoclista bimaculella, food-plant, Rothschild p. 215 Ent. Mag. 45.

Chrysopora hermanella, larva, Sich Proc. S. London entom. Soc. 1909 pp. 43-49.

Coleophora helichrysiella sp. n. Sud-Dalmatien, Krone Wien JahrBer. Entom. Ver. 19 p. 129.—C. megaloptila sp. n. S. Africa, Meyrrok Ann. S. Afric. Mus. 5 p. 360.—C. anatipenella var. n. obscurella Rossia or., Krulikovskij Rov. russ. ent. 8 p. 276.—C. fletcherella history, distribution, food plants, bibliography, pp. 33-18 pls. i ii, Hammar U. S. Dept. Agric. Ent. Bull. 80 Part 2.

Commatica gen. n. Gelechiidae p. 18, eremna sp. n. Bolivia p. 19, Meyrick Tr. ent. Soc. London 1909.

Comocritis thespias, sp. n. Ceylon, Мехніск Bombay J. Nat. Hist. Soc. 19 p. 423.

Copocentra gen. n. Plutellidae, calliscelis sp. n. Bolivia, MEYRICK p. 35 Tr. ent. Soc. London 1909.

Coptoproctis Zell. redescribed, MEY-RICK Ann. S. Afric. Mus. 5 p. 359.

Cosmopteryx antichorda sp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5 p. 357.—C. oxyglossa pl. vi fig. 3, scaligera pl. vi fig. 4 sp. n. Pretoria, Meyrick Ann. Transvaal Mus. 2 p. 18.—C. anadoxa, panopla Ceylon, p. 412, cyclopoea, erethista, p. 413, holophracta, licnura, p. 414, artemidora, India, catharaema Ceylon, p. 415, belonaema Khasis, basilisca Ceylon, p. 416, paltophanes p. 417, vexillaris p. 418. India, laetifica p. 418, manipularis, aculeata, p. 419, spiculata, hamifera, p. 420, artifica, Ceylon, ingeniosa Khasis, p. 421, spp. n. Meyrick Bombay J. Nat. Hist. Soc. 19.—C

irrubricata Mexico and Jamaica pl. 4 &. pl. i f. 1, ochleria f. 2, astrapias f. 3, p. 5, xanthura, diaphora, p. 6, Mexico, spp. n., Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Depressaria putridella, SICH p. 221 etc. pls. xv & xvi Ent. Rec. 21.—D. rhodochrella Synonymie, subproprinquella var. rhodochrella H. S. eine selbständige Art, Krone Wien JahrBer. Entom. Ver. 19 pp. 129–133.

Dichomeris hirculella Connecticut p. 89, delotella p. 90, deflecta p. 91, Arizona, spp. n., Busck Washington Proc. Ent. Soc. 11.

Diocosma tricycla pl. vii fig. 7 sp. n. Pretoria, Meyrick Ann. Transvaal Mus. 2 p. 22.

Dioscoma gen. n. Gelechiidae p. 352 for callichroa, ceramopis, p. 353, spp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5.

Doleromima cyanaspis sp. n. Peru, MEYRICK p. 23 Tr. ent. Soc. London 1909.

Dryoperia nom. n. for Dryope Chambers, Coolings Ent. News 20 p. 112.

Elachista alpella sp. n. Ost-Alpen, Krone Wien JahrBer. Entom. Ver. Ver. 19 pp. 129-133.

Encolpotis p. 352 gen. n. Gelechiidae for xanthoria sp. n. S. Africa, MEYRICK Cape Town Ann. S. Afric. Mus. 5.

Epicephala barbitias pl. vii fig. 10, veneranda pl. viii fig. 1, Pretoria, spp. n., Meyrick Ann. Transvaal Mus. 2 p. 24.

Elachista chelonitis pl. viii fig. 2 sp. n. Pretoria, MEYRICK p. 25 T.c.

Embola gen. n. Lavernidae, xanthocephala, p. 3, dentifer p. 4 & pl. i f. 6, spp. n. Mexico, Walsingham Biol. Centr. Amer. Lep. Het. 4.

Eretmocera florifera pl. vii fig. 2 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 21.

Erineda gen. n. near Stathmopoda p. 94, elyella sp. n. Connecticut p. 95, Busck Washington Proc. Ent. Soc. 11.

Eritarbes gen. n. Lavernidae, otiosa sp. n. Mexico pl. i f. 11, Walsingham p. 7 Biol. Centr.-Amer. Lep. Het. 4. Ethmidae; fam. n. for Ethmia Hübner and allies, Busck Washington Proc. Ent. Soc. 11 p. 91.

Etiella zinckenella, injurious occurrence, Chittenden U. S. Dept. Agric. Ent. Bull. No. 82 Part iii.

Gelechia (Lita) hoefneri sp. n. Kärnten, Rebel Wien Verh. ZoolBot. Ges. 59 pp. (330)–(333).—G. leucomelanella = (vicinella Dgl.) p. 263, abb. n. suffusa and albescens p. 265, Bankes Ent. Mag. 45.—G. maculatella en France, Joannis Feuille jeunes natural. 39 p. 249.—G. chersophila p. 351, epicentra, panaula, p. 370, phelotris p. 371, spp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5.—G. mesacta pl. iv fig. 8 Pretoria, peronectis pl. iv fig. 9 Zoutpansberg, spp. n., Meyrick Ann. Transvaal Mus. 2 p. 12. G. lipatiella Colorado p. 88, biforella Texas p. 89, spp. n., Busch Washington Proc. Ent. Soc. 11.—G. cheradias sp. n. Invercargill, Meyrick Trans. N. Zeal. Inst. 41 p. 12.

Gephyristis gen. n. Tineidae, anchiala sp. n. pl. viii fig. 6 Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 27.

Glyphipteryx stelucha sp. n. S. Africa Meyrica Ann. S. Afric. Mus. 5 p. 375—G. pyrogastra Khasis, hemipempta, p. 429, enclitica, hilarodes, p. 430, carenota, synarma, p. 431, crotalotis, sclerodes Ceylon, bicornis Khasis, p. 432, psychopa, maschalis, p. 433, Ceylon, rhodanis, canachodes, India, p. 434, antidoxa, orymagdis, p. 435, Ceylon, spp. n., Meyrica Bombay J. Nat. Hist. Soc. 19.—G. selenitis, codonias, spp. n. N. Zealand, Meyrica Trans. N. Zeal. Inst. 41 p. 15.

Gnorimoschema gallaesolidaginis natural history, Brodie p. 7 Canad. Ent. 41.—G. synecta pl. iv fig. 10 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 12.

Gonionota characters p. 24, G. isophylla, comastis, p. 25, alexandra, teganitis, p. 26, phocodes, Peru, incisa Bolivia, p. 27, saulopsis Peru p. 28, spp. n., MEYRICK Tr. ent. Soc. London 1909.

Gracilaria elotella sp. n. Connecticut Busck Washington Proc. ent. Soc. 11 p. 102.—G. prosticta sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 74. G. alpherakiella Gouv. Viatka sp. n., KRULIKOVSKIJ Rev. russ. ent. 8 p. 275.—G. selenitis sp. n. Mt. Houldsworth, MEYRICK Trans. N. Zeal. Inst. 41 p. 15.

Gymnogramma rhodoneura sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 374.

Gypsosaris gen. n., conita sp. n. S. Africa, MEYRICK p. 375 T.c.

Harpella scolopistis sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 354.

Heliodines metallicella sp. n. Arizona, Busch Washington Proc. ent. Soc. 11 p. 96.—H. obolarcha sp. n. Bolivia, MEYRICK p. 35 Tr. ent. Soc. London 1909.

Hieroxestis praematura pl. viii fig. 5 sp. n. Natal, MEYRICK Ann. Transvaal Mus. 2 p. 26.

Hilarographa hermatodes Ceylon, merinthias, p. 426, mechanica, calathisca, p. 427, citharistis, druidica, p. 428, India, spp. n., MEYRICK Bombay J. Nat. Hist. Soc. 19.

Holocacista gen. n. for Antispila rivillei Stn., Walsingham p. xxix P. ent. Soc. London 1909.

Homaledra knaoi sp. n. Mexico p. 9 pl. i f. 8, Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Homoeoprepes gen. n. Lavernidae, trochiloides sp. n. Costa Rica pl. i. f. 13, Walsingham p. 10 T.c.

Hyostola gen. n. for Procometis part, MEYRICK p. 730 P. Z. S. 1908.

Hypercallia sincera pl. vii fig. 6 Pretoria, sp. n., MEYRICK Ann. Transvaal Mus. 2 p. 22.

Idiocrates gen. n. Gelechiidae, balanitis sp. n. Bolivia, MEYRICK p. 19 Tr. ent. Soc. London 1909.

Imma zophodes p. 35, protocrossa p. 36, spp. n. Bolivia, Meyrick T.c.— I. loxopis sp. n. Khasis, Meyrick Bombay J. Nat. Hist. Soc. 19 p. 425.

Iridostoma gen. n., ichthyopa sp. n. Ceylon, MEYRICK p. 425 T.c.

Isocrita gen. n. Oecophoridae, stolarcha sp. n. S. Africa, MEYRICK Cape Town Ann. S. Afric. Mus. 5 p. 372.

Izatha percnitis sp. n. Wellington, MEYRICK Trans. N. Zeal. Inst. 41 p. 14.

Laverna farinacea, obsessa pl. i f. 16, p. 16, pernota f. 17, Mexico, agonistes f. 12 Guatemala, p. 17, spp. n., Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Leucoptera scammatias pl. viii fig. 4 sp. n. Pretoria, MEYRIOK Ann. Transvaal Mus. 2 p. 26.

Limnoecia neurogramma pl. vi fig. 9, eretmota pl. vi fig. 10, Pretoria spp. n., MEYRICK p. 20 T.c.

Lita coussonnellae sp. n. France' Chrétien Naturaliste Paris 30 1908 p. 245.

Lithocolletis lapadiella sp. n. Süd-Dalmatien, KRONE Wien JahrBer. Entom. Ver. 19 pp. 129-133.

Logisis gen. n. Gelechiidae p. 20, achroea sp. n. Costa Rica p. 21 & pl. i f. 19, Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Lophoptilus = (Cyphophora H.-S.), nomenclature, Walsingham & Durrant pp. 155 & 156 Ent. Mag. 45.

Lotisma gen. n. near Hemerophila, type Sciaphila trigonana, Busck Washington Proc. Ent. Soc. 11 p. 98.

Lyonetia cotifraga sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 360.— L. clerkella, Schaden an Obstbaumen, Bekämpfung, Vyšinskij Věstn. sadov. plodov. ogorodu. 50 pp. 559-502.

Machlotica gen. n. Plutellidae p. 36, chrysodeta, nebras, p. 39, atractias p. 38, spp. n. Bolivia, MEYRICK Tr. ent. Soc. London 1909.

Mallobathra scoriota sp. n. Wellington and Invercargill, MEYRICK Trans. N. Zcal. Inst. 41 p. 16.

Megacraspedus serica sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 369.— M. exilis sp. n. Mexico p. 21 & pl. i f. 20, Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Melasina brachyctenis, circophora, p. 364, stibarodes p. 378 spp. n., S. Africa, MEYRICK Ann. S. Afric. Mus. 5.—
M. agria pl. viii fig. 8 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 27.

Neopscustis gen. n. Micropterygidae, calliglauca sp. n. Khasis, Meyrick Bombay J. Nat. Hist. Soc. 19 p. 436. Nepticula (?) sp. Minieren in Espenblättern, Taliew Charikov Trav. Soc. nat. 42 1907–1908 [1909] pp. 85–90 + deutsch. Rés. 91–92 1 Taf.—N. auriciliella sp. n. Morbihan, Joannis Pariciliel. soc. ent. 77 p. 822.—N. acetosellae life-history, Sich p. 103 & pl. ix Ent. Rec. 21.

Nothris (?) rhyodes pl. v fig. 8 p. 16, pycnodes pl. v fig. 9 p. 17, spp. n. Pretoria, Meyrick Ann. Transvaal Mus. 2.

Odites metaphracta sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 354.

Opogona scaphopis sp. n. S. Africa, MEYRICK p. 376 T.c.

Orphnolechia gen. n. Stenomidae p. 28. crypsiphragma, chionogramma, spp. n. Bolivia, p. 29, MEYRICK Tr. ent. Soc. London 1919.

Palaetheta gen. n. p. 24, Stenomidae, ischnozona p. 24 pl. vii fig. 9 Pretoria sp. n., MEYRICK Ann. Transvaal Mus. 2 p. 24.

Paltodora operosa pl. iv fig. 1, iospila pl. iv fig. 2, Pretoria, spp. n., Meyrick p. 10 T.c.

Pammeces phlogophora sp. n. Panama pl. i f. 7 & p. 11, Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Parasia neuropterella, food-plants, BANKES p. 15 Ent. Mag. 54.

Parexaula gen. n. Stenomidae for isomima sp. n. S. Africa, MEYRICK Cape Town Ann. S. Afric. Mus. 5 p. 356.

Paristhmia gen. n. near Brachmia, barathrodes sp. n. pl. v fig. 1 Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 13.

Perimede particornella sp. n. Columbia and Maryland p. 96, Busck Washington Proc. Ent. Soc. 11.—P. catapasta sp. n. Mexico, Walsingham p. 18 Biol. Centr.-Amer. Lep. Het. 4.

Persicoptila chiasta sp. n. Ceylon, MEYRICK Bombay J. Nat. Hist. Soc. 19 p. 421.

Philobota chalinistis sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 355. P. tectifera sp. n. S. Africa, MEYRICK p. 373 T.c.

Phycodes taonopa, Khasis p. 423, chionardis, cymineuta, Ceylon, chalcocrossa Arabia, p. 424, spp. n. Meyrick J. Bombay Soc. 19.

(N-11091 j)

Phitella balanopis sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 376.

Polyhymno pausimacha pl. v fig. 3 p. 14 Zoutpansberg, palinorsa pl. v fig. 4, paracma pl. v fig. 5, eurydoxa pl. v fig. 6 p. 15, Pretoria spp. n., Meyrick Ann. Transvael Mus. 2.

Prays oleellus, di Del Guercio, SIL-VESTRI Portici Boll. Lab. zool. agr. 3p. 340.—Nouvelles observations sur lateigne de l'olivier; DUMONT Paris C. R. Acad. sci. 148 pp. 1408-1409.

Promalactis platyxantha sp. n. Bolivia, MEXRICK p. 18 Tr. ent. Soc. London 1909.

Prosarotra gen. n. Oecophoridae, sarcopa sp. n. pl. vii fig. 8 Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 23.

Proterodesma gen. n. near Tinea, byrsopoli sp. n. Auckland Island, MEYRICK Subantarct. Isl. New Zealand 1 p. 74.

Psacaphora passerella Connecticut p. 95, purpuriella Colorado p. 96, spp. n., Busck Washington Proc. Ent. Soc. 11.

Pseudastasia gen. n. Lavernidae p. 1, opulenta sp. n. Panama p. 2 & pl. i f. 5, WALSINGHAM Biol. Centr.-Amer. Lep. Het. 4.

Psilocorsis fletcherella sp. n. Ottawa, Gibson p. 96 Canad. Ent. 41.

Psittacastis gen. n. Gelechiidae p. 20, trierica, gaulica, p. 21, eurychrysa p. 22, spp. n., Bolivia, Meyrick Tr. ent. Soc. London 1909.

Rhoecoptera gen. n. type gigas, Wals., MEYRICK Cape Town Ann. S. Afric. Mus. 5 p. 373.

Scelorthus calcifer sp. n. Mexico, Walsingham p. 2 Biol. Centr.-Amer. Lep. Het. 4.

Scyrotis gen. n. for athleta sp. n. S. Africa, MEYRICK Cape Town Ann. S. Afric. Mus. 5 p. 377.

Scythris gallicella sp. n. Vanness-Joannis Paris Bul. soc. ent. 1908 p. 248—S. cometa pl. vii fig. 3 Pretoria p. 21, ochrantha pl. vii fig. 4 Natal, pelochyta pl. vii fig. 5 Pretoria, p. 22, spp. n. MEYRICK Ann. Transvaal Mus. 2. Semioscopis avelanella, Mimicry der Eier, GADOLLA Graz Mitt. Natw. Ver. Steierm. 45 p. 443.

Semodictis gen. n. Gelechiadae, tetraptila sp. n. pl. v fig. 7 Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 16.

Setiostoma callidora sp. n. Bolivia, MEYBICK p. 36 Tr. ent. Soc. London 1909.

Simaethis pariana Zahl der Generationen, Schaden an Apfelbaumen, Schreiner Saratov Sadovod 2 pp. 127-129.

Sitobroga celyphodes pl. iv f. 3 sp. n. Pretoria, MEYRICK Ann. Transvaal Mus. 2 p. 10.—S. cerealella, Lebensgeschichte Schaden und Bekämpfung im Kaukasus, Portschinsky Trd. b. entom. učen. kom. Gl. Upr. Zemb. 3 1 pp. 1–13 8 fig. i. T.

Sophronia roseicrinella sp. n. Texas, Busck Washington Proc. Ent. Soc. 11 p. 87.

Stagmatophora lasanistis sp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5 p. 358. —S. narcota pl. vi fig. 5, tripola pl. vi fig. 6, sclerodes pl. vi fig. 7, p. 19, phalacra pl. vi fig. 8 p. 20, Pretoria spp. n., Meyrick Ann. Transvaal Mus. 2.—S. ceanothiella galls, Brodie p. 158 Canad. Ent. 41.

Stathmopoda trichodora pl. vii fig. 1 sp. n. Zoutpansberg, Meyrick Ann. Transvaal Mus. 2 p. 21.

Stenoma columbaris p. 31, tritypa p. 32, monastra, epophrysta, p. 33, Peru, astronoma Bolivia p. 34, spp. n., Mey-RICK Tr. ent. Soc. London 1909.

Stilbosis incincta pl. i f. 9, juvenis f. 10 p. 8, amphibola p. 9, spp. n., Mexico, Walshingham Biol. Centr.-Amer. Lep. Het. 4.

Strobisia porphyraspis sp. n. Bolivia, MEYRICK p. 23 Tr. ent. Soc. London 1909.

Synallagma busckellum pl. i f. 4 & p. 11, Walsingham Biol. Centr.-Amer. Lep. Het. 4.

Telphusa probata pl. iv fig. 4, lathridia pl. iv figs. 5-6, zymotis pl. iv fig. 7 p. 11, Pretoria, spp. n., Meyrick Ann. Transvaal Mus. 2.

Temelucha gen. n. near Epermenia, xeropa sp. n. pl. viii f. 3, Pretoria, MEYRICK p. 25 T.c.

Thioscelis gen. n. Stenomidae p. 29, directrix sp. n. Peru p. 30, Meyrick Tr. ent. Soc. London 1909. Tinaegeria trabeata sp. n. Bolivia, MEYRICK p. 18 T.c.

Tinea antiphracta p. 362, sesquitertia p. 361, spp. n. S. Africa, Meyrick Ann. S. Afric. Mus. 5.—T. adamasta pl. viii fig. 7 sp. n. Pretoria, Meyrick Ann. Transvaal Mus. 2 p. 27.—T. coracopis Peru, xenodes Bolivia, spp. n., Meyrick Tr. ent. Soc. London 1909.

Trichotaphe claviculata pl. v fig. 10, ironica pl. vi fig. 1, Pretoria spp. n., Меукіск Ann. Transvaal Mus. 2 p. 17. —T. serena sp. n. Bolivia, Меукіск p. 23 Tr. ent. Soc. London 1909.

Valentinia nom. n. for Pronuba Riley, COOLIDGE Ent. News 20 p. 112.—V. Coolidge synonym of Tegeticula, Busck T.c. p. 179.

Walshia = (Mompha Hnm.), nomenclature p. 156 & 173, Walsingham & Durrant Ent. Mag. 45.—W. calcarata pl. i f. 15, detracta f. 14, spp. n., Mexico, Walsingham p. 15 Biol. Centr.-Amer. Lep. Het. 4.

Y ponomeuta; noxious spp. in Sweden, LAMPA Entomol. Tidskr. 29 1908 pp. 273-277.—Y. sistrophora sp. n. S. Africa, MEYRICK Ann. S. Afric. Mus. 5 p. 358.

Ypsolophus scenites sp. n. S. Africa, MEYRICK p. 371 T.c.—Y. tephrodes pl. vi fig. 2 sp. n. Zoutpansberg, MEYRICK Ann. Transvaal Mus. 2 p. 18.

Zaratha prosarista p. 410, dicellias p. 411, Khasis, spp. n., MEYRICK Bombay J. Nat. Hist. Soc. 19.—Z. pterodactylella = (niveiventris F. & R.), WALSINGHAM p. 12 Biol. Centr. Amer. Lep. Het. 4.—Z. mesonyctia sp. n. Bolivia, MEYRICK p. 17 Tr. ent. Soc. London 1909.

TRICHOPTERA.

Trichoptera, Ulmer, Die Susswasserfauna Deutschlands H. 5. & 6 pp. iv + 326.

Trichopteren der Schweiz; Felber Diss. Basel 1908.

Habits and instars of Wisconsin Trichoptera; Vorhies Tr. Wiscons. Ac. 16 pp. 647-738 pls. lii-lxi.

Trichopterenstudien. V. Metamorphose südamerikanischer Trichopt.; Thienemann Zs. wiss. Insektenbiol. 5 pp. 37-42 125-132.

Über unbewegliche Gehäuse von Trichopterenlarven; Kolbe Aus d. Natur. 5 pp. 550-551.

Sur la variation d'une enzyme oxydante pendant la métamorphose chez un Trichoptère; Roques Paris C. R. Acad. sci. 148 pp. 418-419.

Acrunoeciclla gen. n. near Acrunoecia, chaldyrensis sp. n. Tiflis, MARTYNOW Zool. Jahrb. Syst. 27 p. 528.

Agrypnia picta Tibet, MARTYNOW St. Peterburg Ann. mus. zool. Ac. sc. 14 p. 259.

Allophylax major Kham p. 275 pl. v f. 19-22, minor Kham. p. 279 f. 23-26, spp. n., Martynow T.c.

Amphipsyche meridiana sp. n. Java, ULMER Leiden Notes Mus. 31 p. 134.

Anabolia oculata sp. n. Tibet orient., MARTYNOW St. Peterburg Ann. mus. zool. 14 p. 259 pl. v f. 1-3.

Anabolioides gen. n. pro appendix Ulm., Martynow p. 262 pl. v f. 4 5 f. 1 T.c.

Anisocentropus voeltzkowi sp. n. Madagaskar, Ulmer Reise Ostafrika 2 p. 357.—A. bang-haasi sp. n., Neu-Pommern, Ulmer Leiden Notes Mus. Jentink 31 p. 139.

Apatania subtilis sp. n. Tiflis, MARTY-NOW Zool. Jahrb. Syst. 27 p. 522.— A. mirabilis sp. n. Kham and Orin-nor, MARTYNOW St. Peterburg Ann. mus. zool. 14 p. 287 pl. vi f. 1-8 f. 5.

Arctopsyche sinensis sp. n. Kham, Martynow St. Peterburg Ann. mus. zool. 14 p. 300 pl. vi f. 16-18.

Atopsyche lucidula sp. n. Argentina, ULMER Zs. wiss. Insektenbiol. 5 p. 73.

Beraea palpata sp. n. Tislis, MARTY-NOW Zool. Jahrb. Syst. 27 p. 536.

Brachycentrus kozlovi sp. n. Kham, Martynow St. Peterburg Ann. muszool. 14 p. 291 pl. vi f. 9-11 text-f. 6-9.

Chimarrha bidens sp. n. Venezuela, ULMER D. ent. Zs. 1909 p. 308.—C. (N-11091 j) argentinica sp. n. Argentinia, ULMER Zs. wiss. Insektenbiol 5 p. 74.—C. pulchra sp. n. Cuba, ULMER Leiden Notes Mus. 31 p. 127.

31 . 7 520

Colpotaulius major sp. n. Kars, MARTYNOW Zool. Jahrb. Syst. 27 p. 516.

Dinarthrodes albardana Ulm, Beschreibung (Russ.), MARTYNOW St. Peterburg Ann. mus. zool. 14 p. 254.

Dinomyia gen. n. Lepidostomatinarum p. 295, djerkuana sp. n. Kham. p. 297 pl. v f. 31 & vi f. 12-15, Text f. 10, MARTYNOW T.c.

Diplectrona jacobsoni sp. n. Java, Ulmer Leiden Notes Mus. 31 p. 137.

Dipseudopsis nieuwenhuisi Borneo, spinigera Madagasoar, spp. n., Ulmer pp. 128-130 T.c.

Dolophilodcs gen. n. near Dolophilus p. 125, ornata sp. n. Central-Asien p. 126, Ulmer T.c.

Ecnomus obtusus sp. n. Java, Ulmer Leiden Notes Mus. 32 p. 50.

Goera tungusensis p. 246 f. 16-19, squamifera p. 250 f. 20-23, spp. n. Ostsibirien, Martynow St. Peterburg Ann. mus. zool: 14.

Heliconis gen. n., chomiacensis sp. n. Carpathians, DZIEDZIELEWICZ Čas. České Spol. Entomolog. 1908 p. 21-25.
—H. thuringica sp. n. Deutschland, ULMER Zool. Anz. 34 p. 286.

Homilia longispinosa sp. n. Kars, Martynow Zool. Jahrb. Syst. 27 p. 533.

Hydromanicus fasciatus. 3, ULMER Leiden Notes Mus. 31 p. 138.

Hydropsyche rhomboana sp. n. Kham, Martynow St. Peterburg Ann. mus. zool. 14 p. 302 Textf. 11-13.—H. cornuta sp. n. Tiflis, ornatula subspp. n. gracilis Eriwan, and nigrescens Tiflis, instabitis subspp. n. acuta Kars, and nigra Tiflis, Martynow Zool. Jahrb. Syst. 27 pp. 539-543.—H. globosa sp. n. Java, Ulmer Leiden Notes Mus. 32 p. 56.—H. instabitis larval he bits, Petersen Kobenhavn Nath. Medd. 1908 pp. 123-126 figs.—†H. scudderi sp. n. Colorado Miocene, Cockerell Amer. J. Sci. 27 p. 387.

Lepidostoma hirtum Fabr. Genitalanhänge (Russ.), MARTYNOW St. Peterburg Ann. mus. zool. 14 p. 253 f. 23.—

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L. wisconsinens:s sp. n. Wisconsin, Vorhies Trans. Wis. Acad. 16 p. 685 pl. lii & pl. lvii.

Leptocerus dilutus Hagen, p. 688, ancylus p. 691, tarsi-punctatus p. 694, spp. n., Vorhies T.c.

Limnophiloides gen. n. p. 265, simplex p. 267 pl. v f. 6-8, appendiculatus p. 269 pl. v f. 9-12, spp. n. Tsaidam, MARTYNOW St. Peterburg Ann. mus. 2001. 14.

Limnophilus transcaucasicus sp. n. Tiflis, Martynow Zool. Jahrb. Syst. 27 p. 519.—L. incertus Kuku-nor p. 271 pl. v f. 13-15, signifer Nan-Schan pp. 273-275 pl. v f. 16-18, spp. n., Martynow St. Peterburg Ann. mus. zool. 14.—L. flavicornis Variation de quelques diastases pendant la métamorphose; Roques Paris C. R. Acad. sci. 149 pp. 319-321.

Lithacodes gen. n. für Lithax incanus Hagen, Martynow Zool. Jahrb. Syst. 27 p. 526.

Macronema sinuatum &, ULMER, Leiden Notes Mus. 31 p. 135.—M. carolina sp. n. North Carolina, BANKS Ent. News 20 p. 342.

Macronematinae; S. American larvae, Thienemann pp. 308-311 D. ent. Zs. 1909.

Molanna uniophila sp. n. Wisconsin, Vornies Trans. Wis. Acad. 16 p. 705 pls. liii & lvii.

Neolepidostomu gen. n. p. 60, jacobsoni sp. n. p. 62 Java, Ulmer Leiden Notes Mus. 32.

Neophylax autumnus sp. n. Wisconsin, Vorhies Trans. Wis. Acad. 16 pp. 669-672 fig. 3 pl. lii & pl. lv.

Neuronia atrata Gm. p. 225 Sibirien, sibirica pp. 226-230 f. 1-4 Gouv. Irkutsk, dentata pp. 230-233 f. 5-7, Sachalin spp. n., Martynow St. Peterburg Ann. mus. zool. 14.

Notiomyia ornata sp. n. Texas, Banks p. 342 Ent. News 20.

Oligo plectrodes gen. n. Sericostomatidarum, Martynow St. Peterburg Ann. mus. zool. 14 p. 294.

Phryganer rotundata Ulm. Sibirien p. 233 f. 8, obsoleta Hag. Verbreitung p. 235; ulmeri Ostsibirien & Japan p. 236 f. 9-12, principalis Gouv. Irkutsk & Dolon-nor pp. 240-244 f. 13-15, spp. n.;

? sp. n. Tsaidam, p. 257; MARTYNOW St. Peterburg Ann. mus. zool. 14.

Phylocentropus maximus sp. n. Wisconsin, Vorhies Trans. Wis. Acad. 16 p. 711 pl. liii & lxi.

Polycentropus jorgenseni sp. n. Argentinia, Ulmer Zs. wiss. Insektenbiol. 5 p. 75.

Protodipseudopsis gen. n. near Dipseudopsis p. 131, sjostedti sp. n. Kamerun p. 132, Ulmer Leiden Notes Mus. 31.

Pseudostenophylax gen. n. Limnophilidarum p. 281, fumosus sp. n. Ordos p. 282 pl. v f. 27-30 fig. 3 4, Martynow St. Peterburg Ann. mus. zool. 14.

Psychomyia capillata sp. n. Java, Ulmer Leiden Notes Mus. 32 p. 52.

Rhyacophila excavata sp. n. Kham, MARTYNOW St. Peterburg Ann. mus. zool. 14 p. 305.

Rhyacophylax lobatus sp. n. Las Trinchéras, Ulmer D. ent. Zs. 1909 p. 305.—R. magnus sp. n. Argentinia. Ulmer Zs. wiss. Insektenbiol. 5 p. 120.

Silo tuberculatum sp. n. Kars, Martynow Zool. Jahrb. Syst. 27 p. 524.

Thremma gallicum, Larve u. Gohäuse, Klapálek Čas. České Spol. Entomolog. 1908 pp. 90-94.

Tinodes flavopunctata sp. n. Java, ULMER Leiden Notes Mus. 32 p. 54.

Triaenodes kawraiskii sp. n. Tiflis, MARTYNOW Zool. Jahrb. Syst. 27 p. 531.—T. columbica sp. n. Columbien, ULMER Leiden Notes Mus. 31 p. 141.

NEUROPTERA (incl. Panorpatae).

Swedish insect fauna, *Planipennia*, MJÖBERG Entomol. Tidskr. **30** pp. 129-161 figs.

Die Süsswasserfauna Deutschlands H. 7 Neuroptera; Heymons u. Heymons pp. 17-26.

Neuroptera of Spain and Portugal, pt. ii; Navás Broteria 7 pp. 1-131.

Neuroptera of Malay Archipelago, Weele Leiden Notes Mus. 31 pp. 1-100.

Catalogue des Ascalaphides des collections du Muséum; VAN DER WEELE Bul. Mus. Paris 1909 pp. 170-174.

Catalogue des Rhaphidiides des collections du Muséum; NAVÁS Bul. Mus. Paris 1909 p. 450.

†Zur Kenntnis "frühjurassischer Copeognathen und Coniopterygiden"; HANDLIRSCH Zool. Anz. 35 pp. 233-240.

Der Genitalapparat der Neuropteren und seine Bedeutung für die Systematik derselben; STITZ SitzBer. Ges. natf. Freunde 1909 pp. 91-99.

Zur Kenntnis des Genitalapparats der Neuropteren; STITZ Zool. Jahrb. Anat. 27 pp. 377-448.

Metamorphosis of Myrmeleon frontalis, acer, Chrysopa jacobsoni; Weele Leiden Notes Mus. 31 pp. 38-41 45.

A summer's insect collecting; MUTT-KOWSKI Bull. Wisc. Nat. Hist. Soc. 6 pp. 164-169 text-fig.

Acanthaclisis alluaudi sp. n. Madagascar, Van der Weele Bul. sci. France-Belgique 42 p. 62 pl. ii fig. 1.

Anchieta gen. n. near Symphrasis p. 13, nobilis sp. n. Jatahy p. 14, Navás Mem. Ac. Barcelona 7 No. 10.

Ankylopteryx octopunctata subspp. n. borneënsis, kisserensis, Malay Archipelago, Weele Leiden Notes Mus. 31 pp. 59-60.

A pochrysa; notes on Malayan species, Weele pp. 82-86 T.c.

Archichauliodes gen. n. type Chauliodes dubitatus Wlk., Weele p. 258 T.c.

†Archiconiopteryx gen. n. für Archipsylla liasina Handlirsch, Enderlein Zool. Anz. 34 p. 774.

Austroleon gen. n., dispar, compar, spp. n. Argentina, BANKS J. New York Ent. Soc. 17 p. 3.

Berotha piepersi, WEELE Leiden Notes Mus. 31 p. 52.

Bittacus nipponicus p. 275 fig., laevipes p. 276 fig., spp. n. Nippon, NAVÁS Rev. rus. ent. 9.—B. australis, habits, JARVIS p. 69 Victorian Nat. 25.

Brachynemurus meridionalis Paraguay, strigosus Argentina, spp. n., Banks p. 2 J. New York Ent. Soc. 17.

Carobius gen. n. Hemerbiidae p. 78, pulchellus, angustus, p. 79, spp. n., Australia, Banks Proc. Ent. Soc. Washington 11.

Chauliodini nov. trib. Sialidarum, Weele Leiden Notes Mus. 30 p. 250.

Chloronia meridionalis sp. n. Brasil, bogotana Columbia, Weele p. 252 T.c.

Chrysocerea gen. n. near Chrysopajacobsoni sp. n. Java, Weele op. cit. 31 p. 75.

Chrysopa jacobsoni, crassoneura, splendida spp. n. with subspp. n. lucasseni and timorensis, Malay Archipelago, Weele pp. 65-74 T.c.—Č. formosa var. n. laletana Hispania, Navás D. ent. Za. 1909 p. 793.—C. perla Larve, McDunnough Berlin 1909 p. 48; Bau des Darms und seiner Anhänge, McDunnough Arch. Natg. 75 I pp. 313-360 5 Taf.

Corydalus primitivus sp. n. Argentine Republic, Weele Leiden Notes Mus. 30 p. 251.—C. cornuta, larva tracheae, Hilton Ann. Ent. Soc. Amer. 2 pp. 46-57 pls. viii-xii.

Ctenochauliodes gen. n. type Chauliodes nigrovenosus, Weele Leiden Notes Mus. 30 p. 263.

Dilar kolbei Andalusia p. 19, corsicus Corsica p. 20, algericus Argel p. 22, corcyraeus Corfu p. 26, syriacus Syria p. 28, lineolatus Turcomania p. 29, spp. n., Navás Mem. Ac. Barcelona 7 No. 10.

Dimares pretiosa sp. n. Peru, BANKS J. New York Ent. Soc. 17 p. 1.

Echthromyrmex orientalis, WEELE Leiden Notes Mus. 31 p. 19.

†Eobanksia gen. n., bittaciformis sp. n. Colorado Miocene, Cockerell Amer. J. Sci. 27 p. 384 figs. 8-9.

†Eomerope gen. n. tortriciformis sp. n. Colorado Miocene p. 381 figs. 1-7, COCKERELL Amer. J. Sci. 27.

†Eomeropinae subfam. n., COCKERELL Amer. J. Sci. 27 p. 364.

Episalus zephyrinus, WEELE Notes Mus. Leiden 31 p. 28. Formicaleo madagascariensis p. 63 pl. ii f. 2, voeltzkowi p. 65 pl. ii fig. 3, spp. n. Madagascar, Van der Weele Bul. sci. France-Belgique 42.—F. schaedleri sp. n. Kisser near Timor, Weele Leiden Notes Mus. 31 p. 23.

Fuentenus lusitanicus sp. n. Portugal, Navás p. 44 Mem. Ac. Barcelona 7 No. 17.

Glyptobasis spinicornis sp. n. Burma, Weele Leiden Notes Mus. 30 p. 245.

Hemerobius suecicus sp. n. Sweden, MJÖBERG Entomol. Tidskr. 30 p. 176 fig.—H. haematicus sp. n. Barcelona, NAVÁS Brotoria 7 p. 23.—H. lautus sp. n. Syria, NAVÁS op. cit. 8 p. 104.

Hemerodromia gen. n. near Hemerobius p. 215, buyssoni sp. n. Puy-de-Dôme p. 217, Navás Ann. Soc. sci. Bruxelles 33.

Hermes sumatrensis Sumatra, selysi Sylhet and Assam, spp. n., maculifera subsp. n. tonkinensis Tonkin, Weele Leiden Notes Mus. 30 p. 255.

Leptopanorpa longicauda sp. n. Java, Weele Leiden Notes Mus. 31 p. 11.

Leucochrysa voeltzkowi sp. n. Madagascar, VAN DER WEELE Bul. sci. France-Belgique 42 p. 67 pl. ii fig. 4.— L. abnormis subsp. n. javanensis, WEELE Leiden Notes Mus. 31 p. 81.

Lidar meridionalis var. n. picta, Navás p. 36 Mem. Ac. Barcelona 7 No. 17.

Macroleon gen. n. type Myrmelcon validus McLachl., Banks J. New York Ent. Soc. 17 p. 4.

Mantispa vassei Mozambique p. 4'haugi Congo, loanga Loango, p. 5'natalica Pinetown, fnoti. p. 6, mariae p. 7, Madagascar, maindroni India, bouchardi Sumatra, p. 8, luzonica Philippines p. 9, harmandi Nipon p. 10, wagneri Brazil, moulti Guiana, p. 11, pasteuri New Guinea p. 12, spp. n., Navás Mem. Ac. Barcelona 7 No. 10.—M. manca subsp. n. papuana New Guinea, Weele Leiden Notes Mus. 31 p. 92.—M. luzonensis n. n. for luzonica Nav., Navás Bol. Soc. Aragon 8 p. 150.—M. pagana, Lambertie Bordeaux Actes soc. linn. 72 p. cv.

Megalomina gen. n. acuminata sp. n. Australia, BANKS Proc. Ent. Soc. Washington 11 p. 78.

†Meropinae subfam. n., Cockerell. Amer. J. Sci. 27 p. 384.

Micromus; notes on Malayan species, Weele Leiden Notes Mus. 31 pp. 53-55.—M. froggatti nom. n. for australis Frogg., Banks Proc. Ent. Soc. Washington 11 p. 77.

Myiodactylus nebulosus, WEELE Leiden Notes Mus. 31 p. 47.

Myrmeleon; Gestalt und Nest der Larve, Averin Sborn. stud. Kruz. liub.-prir. Chark. Univ. 1 pp. 34-52.—M. laufferi sp. r. Escorial, NAVÁS Rev. Ac. Madrid 7 p. 374.—M. sagax subspp. n. sumatrensis, celebensis, papuensis, Malay Archipelago, acer subspp. n. novae-guineae, giloleensis, javanensis, sumatrensis, niasicus, Malay Archipelago, Weele Leiden Notes Mus. 31 pp. 34-46.

Nallachius sen. n. for Dilar prestoni MacL., Navás p. 50 Mem. Ac. Barcelona 7 No. 17.

Neochauliodes gen. n. p. 259, khasianus Assam, koreanus Kocea, obscurus India, spp. n.; sinensis subspp. n. occidentalis Western China and meridionalis Southern China, sundaicus subsp. n. borneensis Borneo, pp. 259-262, Weele Leiden Notes Mus. Jentink 30.

Neoneuromus gen. n. Planipennia for sikkimmensis etc., Weele p. 252 T.c.

Nepal gen. n. Dilarini, harmandi sp. n. 1r.dia, also Dilar hornei MacLachl., Navás p. 45 Mem. Ac. Barcelona 7 No. 17.

Nesoleon gen. n., braunsi sp. n. S. Africa, BANKS New York J. Ent. Soc. 17 p. 4.

Neuromini, nov. trib. Sialidarum, Weele Leiden Notes Mus. 30 p. 250.

Niremberge gen. n. near Hemerobius, limpida sp. n. Spain, Navás p. 377 Rov. Ac. Madrid 7.

Nothochrysa evanescens subspp. n. ludekingi, javanica, everetti, Malay Archipelago, Weele Leiden Notes Mus. 31 pp. 77-78.

Notiobiella gen. n. type unitaexterna, stigmatica, p. 80, obliqua, Aus, tralia, pretiosa Fiji Islands, p. 81, spp. n., BANKS Proc. Ent. Soc. Washington 11. Osmylus; notes on Malayan species, Weele Leiden Notes Mus. 31 pp. 48-52.

†Palaeochrysa concinnula, ferruginea, spp. n., Miocene Florissant, Cockerell p. 218 Canad. Ent. 41.

Palpares paucimaculata sp. n. Ruwenzori, Kirby p. 62 Trans. zool. Soc. 19.

Panorpa communis, MEISSNER Zs. wiss. Insektenbiol. 5 p. 97.—P. naevia p. 273 fig., limbata p. 274 fig., spp. n. Nipon, NAVÁS Rev. russ. ent. 9.—P. muelleri with n. subsp. ungaranensis, pi, jacobsoni spp. n., Java, WEELE Leiden Notes Mus. 31 pp. 6-10.

Panorpodes notata sp. n. Nippon, Navás Rev. russ. ent. 9 p. 274 fig.

Parachauliodes gen. n. type Chauliodes japonicus McLachl., continentalis sp. n. Korea, Weele Leiden Notes Mus. 30 p. 259.

Paraglenurus gen. n. near Glenurus, type Myrmeleon scopifer, p. 29, borneënsis sp. n. Borneo p. 30, Weele op. cit. 31.

†Phenacopsyche gen. n., vexans sp. n. Colorado Miocene, Cockerell Amer. J. Sci. 27 pp. 385-387 figs. 10-12.

Platyneuromus gen. n., type Corydalis socor Hag., Weele Leiden Notes Mus. 30 p. 252.

Protochauliodes gen. n. type Chauliodes cinerascens Blanch., Weele p. 258 T.c.

Protohermes davidi sp. n. China, Weele p. 254 T.c.

Protosialis gen. n., type Sialis americana, Weele p. 263 T.c.

Psectra diptera, Dimorphismus sowohl & als \$\mathbb{Q}\$, MJÖBERG Ark. Zool. 6 No. 5; dipteres Exemplar aus dem Gouv. St. Peterburg, sp. ? aus dem Gouv. Irkutsk, ADELUNG St. Peterburg Ann. mus. zool. 14 pp. xliii-xlvi.—P. buenoi sp. n. N. America, NAvás p. 218 Ann. Soc. sci. Bruxelles 33.

Pseudoformicaleo gen. n. near Formicaleo, jacobsoni sp. n. Java, subsp. n. wetterensis, Weele Leiden Notes Mus. 31 pp. 25-27.

Psychobiella gen. n., sordita sp. n. Australia, Banks p. 79 Proc. Ent. Soc. Washington 11. Raphidia harmandi sp. n. Japan, p. 144, adanana & p. 146; Navás Bol. Soc. Aragon 8.—R. maculicollis pupa etc., Lucas p. 129 pl. iv Entomologist 42.—Notes on British, Porritt Entomologist 42 pp. 141–143.

†R. exhumata sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 73. —R. mortua sp. n. Colorado Tertiary, Rohwer Amer. J. Sci. 28 p. 533.

Rexavius gen. n. Dilarina for Dilar nietneri and japonicus, Navás p. 48 Mem. Ac. Barcelona 7 No. 17.

Sialis japonica sp. n. Japan, Weele Leiden Notes. Mus. 30 p. 264.

Sisyra brunnea p. 76, punctata p. 77, spp. n., Australia, Banks Proc. Ent. Soc. Washington 11.

Sympherobius tenellus p. 25, conspersus, gratiosus, p. 20, venustus, venosus, p. 27, Spain, spp. n., Navás Broteria 7.

Tomatares pardalis, WEELE Leiden Notes Mus. 31 p. 17.

DIPTERA.

Catalogue of Diptera, Vols. 4 & 5, Oncodidae to Omphralidae, by Kertész Budapest 1909.

Diptera brachy cera, or British flies Vol. v., VERRALL. Includes classification pp. 3-30, metamorphoses (by Sharp) pp. 31-39, and, as supplement of 34 pp., a list of the palaearctic species of the ten families included in this Volume.

Trophi of *Diptera*, homologies, bearing on taxonomy; Wesché J. R. mier. Soc. 1909 pp. 1-16 & pls. i-iv.

Meigen's genera of 1800 not acceptable, Verrall p. 772 Brit. slies 5.

Meigen's Erstlingsarbeit über Dipteren; Hendel Ent. Ztg Wien 28 pp. 33-36.

Notes dipterologiques; VILLENEUVE p. 43-45 Ent. Ztg. Wien 28.

Seltene Fliegen Böhmens; auch solche, we'che in den Gehäusen und Larven einiger böhmischen Schmetterlinge parasitaer leben; VIMMER Čas. České Spol. Entom. 1909 pp. 64-66.

Affinitics of forms found in tropical copal with palaearctic forms; MEUNIER Bruxelles Ann. Soc. Scient. 33 p. 141.

Blood-sucking Diptera, tables; SERGEANT Paris 1909 305 pp.

Les Diptères parasites des cavités naturelles chez l'homme; HAUTE-FEUILLE Amiens Bul. soc. linn. 18 1907 pp. 81-90.

Mécanisme de la synthèse des impressions lumineuses recueillies par los youx composés des Diptères; VIGIER Paris C. R. Acad. sci. 148 pp. 1221-1223.

CECIDOMYIIDAE.

Dipterocecidien der Insel Bornholm; BAYER Wien Verh. ZoolBot. Ges. 59 pp. 104-120.

Arnoldia quercicola, dryophila, nervicola, plicans, p. 21, tympanifex p. 22, panteli, baldratii, p. 23, spp. n., Europe, Kieffer Bull. Soc. Metz 26.

Asphondylia calaminthae p. 3, celsiae p. 6, lupulinae p. 14, frauenfeldi, phlomidis, p. 15, rutae p. 26, swaedae, proxima, p. 30, spp. n., Europe, Kieffer T.c.—A. solani sp. n. Zambesi, Tavares Broteria 7 p. 170.—A. attenuatata sp. n. West Indies, Felt Ent. News 20 p. 300.—A. sulphurea sp. n. pl. i f. 1 Brizil, Tavares Broteria 8 p. 14.—Asphondylia; Neger Berlin Ber. D. bot. Ges. 26a p. 735-754 1 Taf.

Asynapta mangiferae sp. n. West Indies, Felt Ent. News 20 p. 299.

Baldratiavesiculisa, dumosae, waldorfi, nitidu, spp. n., p. 286 N. America, Felt J. Econ. Ent. 2.

Bruggmanniella gen. n. p. 19, brasiliensis sp. n. p. 20 pl. i f. 2 Brazil, TAVARES Broteria 8,

Calodiptosis gen. n., parinarii sp. n. pl. viii figs. 2-8 Zambesi, TAVARES Broteria 7 p. 165.

Caryomyia gen. n. allied to Hormomyia, type Cecidomyia tubicola O. S., antennata, consobrina, similis, inanis, spp. n., p. 292, N. America, Felt J. Econ. Ent. 2.

Cecidomyia thomasi sp. n. Europe, Kieffer Bull. Soc. Metz 26 p. 4.—C. resinicoloides sp. n. California pp. 2-3 pl. i life-history etc., Williams Ent. News 20.—C. destructor, Beschreibung, Lebensweise, Parasiten, Bekämpfung, Demokidov Trd. b. entom. učen. Kom. Gl. Upr. Zeml. 4 10 1908 pp. 26 + 12 Taf.—C. sp., infesting Arundinaria simoni (Japanese), Nawa Konch. Sek. 13 pp. 320-324.

Cincticornia pustulata, simpla, globosa, podagrae, spp. n., Massachusetts, p. 291, Felt J. Econ. Ent. 2.

Clinodiplosis betonicae p. 3, cirsii p. 6, tetrahit p. 9, spinulosa p. 10, strobi p. 17, boleti p. 19, biorrhizae p. 20, breviseta p. 21, crassistigma p. 27, sublevis p. 29, trifolii p. 31, trotteri p. 32, longiventris, massalongoi, p. 34, spp. n., Europe, Kieffer Bull. Soc. Metz. 26.—C. spirae sp. n. Massachusetts, Felt J. Econ. Ent. 2 p. 293.—C. equestris, Encck pp. 217–219 Entomologist 42.

Compiodiplosis gen. n., luteo-albida sp. n. pl. ii f. 2 Brazil, Tavares Broteria 8 p. 14.

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Cystiphora leontodontis p. 14, scorzonerae p. 27, spp. n., Europe, Kieffer Bull. Soc. Metz 26.

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Diplosis punicei galls, Brodie p. 159 Canad. Ent. 41.

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Harmandia pustulans sp. n. Europe, Kieffer p. 18 Bull. Soc. Metz 26.

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Janetiella genistae sp. n. Europe, Kieffer p. 9 T.c.

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Lobodiplosis spinosa sp. n. West Indies, Felt Ent. News 20 p. 301.

Lopesia gen. n., parinarii sp. n. pl. viii figs. 9-13 Zambesi, TAVARES Broteria Lisboa 7 p. 163.

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O. sp., nouvelle diptérocécidie des saules, Peyerimhoff Paris Bul. soc. ent. 1909 pp. 42-43.

Perrisia acaciae, tympani, vitrina, p. 1, aquilegiae, alpestris, asperularum, astericola, astragalorum, p. 2, berberidis, bunellae, p. 3, campanularum, szepligetii, cecconiana, p. 4, carpesii, ruebsaameni, milli, centaureae, clematidis, cucubuli, p. 6, bursifex, cytisi, daphnephila, dianthi, vagans, erigeronis, alpicola, socialis, euphorbiarum, conifex, p. 7, tetrahit p. 8, genistarum, scorpii, rosifex, gentianae, nervicola, p. 9, hyssopi p. 10, corniculata p. 12, lathyri, pratensis, silvestris, p. 13, xylostei, excavans, loti, mimosae, p. 14, fructicola, palustris, columnae, p. 15, pirolae p. 17, polygalae, bistortae, populnea, p. 18, panteli, libera, malpighii, p. 21, tubularis p. 22, traili, auricomi, rhododendri, ribicola, p. 25, pierreana p. 26, salviae p. 27, senebrierae, subterranea, zannonii, p. 28, rostrupiana, filipendulae, granulata, holosteae, p. 29, silvicola, tamaricina, teucriicola, tiliae, p. 30, ulicis, gallica, ulmicola, vitisidaea, anglica, valerianae, verbasci, p. 31, spicatae p. 32, zillae p. 34, spp. n. Europe, Kieffer Bull. Soc. Metz 26.

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Stephodiplosis gen. n., lanneae sp. n Zambesi, Tavares Broteria 7 p. 140.

Zalepidota, sp. n. Brazil, TAVARES Broteria 8 p. 24.

MYCETOPHILIDAE.

The genera of Mycetophitidae with lists of species, figures of wings and some structural details, Johannsen Gen. ins. 93 121 pp. & 7 pls.

Mycetophilidae of North America, monograph, Johannsen Bull. Agric. exp. Sta. Maine 172 276 pp. & 3 pls.

Allocotocera, flavescens sp. n. Wisconsin, Johannsen p. 72 Gen. ins. 93.

Anatella silvestris sp. n. New York, Johannsen p. 91 T.c.

Apemon gen. n. type Platyura pectoralis Coq., Johannsen p. 20 T.c.—A. nigriventris sp. n. Selkirk Mts., Johannsen Bull. Agric. Exp. Maine 172 p. 245.

Asindulum brevimanum var. n. hispanicum Alicante, Strobl Wien Verh.-ZoolBot. Ges. 59 p. 128.

Azana anomala var. p. flarohalterata Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 129.

Brachycampta barbata p. 26, nigrofusca p. 27, Fennia, spp. n., LUNDSTRÖM Helsingfors Acta Soc. Fauna et Fl. Fennia 32 No. 2.

Ceroplatus militaris sp. n. Ithaca, Johannsen Bull. Agric. Exp. Sta. Maine 172 p. 237.

Coelosia truncata sp. n. Fennia, Lundström He'singsfors Acta Soc. Fauna et Fl. Fennia 32 No. 2 p. 18.

Cordyla volucris sp. n. New York, JOHANNSEN p. 101 Gen. ins. 93.— C. fusca, Anatomie der Larve, VIMMER Čas. České Spol. Entomolog. 1909 pp. 148–153.

Dziedzickia nom. n. for Hertwigia Dz., Johannsen Gen. ins. 93 p. 44.

Exechia fimbriata p. 47, crucigera p. 48, nigrofusca p. 49, parva p. 50, exigua p. 52, bispinosa p. 53, Fennia, spp. n., Lundström Helsingfors Acta Soc, Fauna et Fl. Fenn. 32 No. 2.— E. contaminata larva, Pastejník Čas. České Spol. Entomolog. 1908 pp. 27-31. Fungivora collineola sp. n., Speiser Kilimandjaro-Meru Exp. 10 4 p. 36.

†Lasiosoma mirandula sp. n. Colorado Miocene, Cockerell Amer. J. Sci. 27 p. 53.

Lcia Meig. = (Glaphyroptera Winn.), Johannsen Gen. ins. 93 p. 76.

Lycoria bibionea p. 31 fig. 1-2, isarthria p. 32 fig. 3, zalampra p. 34, spp. n., Speiser Kilimandjaro-Meru Exp. 10 4.

Macrocera geminata sp. n. Ithaca, Johannsen Bull. Agric. Exp. Sta. Maine 172 p. 272,

Megophthalmidia, sp. n. Washington State, Johannsen p. 89 Gen. ins. 93.

Meunieria nom. n. for Willistoniella Meun., JOHANNSEN p. 87 T.c.

Mycetophila freyii p. 58, autumnalis p. 60, quadra p. 61, Fennia, spp. n., Lundström Helsingfors Acta Soc. Fauna et Fl. Fenn. 32 No. 2.

Neoempheria nigriceps sp. n. Fennia australis, Lundström Helsingfors Acta Soc. Fauna et Fl. Fauna 32 No. 2 p. 15.—N. striata, larva, Pastejřík Čas. České Spol. Entomolog. 1908 pp. 27-31.—N. amphiphαa sp. n., Špeiser Kilimandjaro-Meru Exp. 10 4 p. 35 fig. 5.—N. apicalis sp. n. Peru, Kertész Ann. Mus. Hung. 7 p. 140.

Opistholoba ocellata sp. n. New York, Јонанизен р. 126 Gen. ins. 93.

Palaeoplatyura aldrichii sp. n. Washington State, Johannsen p. 10 Gen. ins. 93.—P. johnsoni sp. n. Burlington, Johannsen Bull. Agric. Exp. Sta. Maine 172 p. 226.

Phronia nigripalpis p. 40, fimbriata p. 47, Fennia australis, spp. n., Lundström Helsingfors Acta Soc. Fauna et Fl. Fenn. 32 No. 2.

Platyura czernyi sp. n. Algeciras, STROBL Wien Verh. ZoolBot. Ges. 59 p. 128.—P. setiger p. 252, mimula p. 255, nigrita p. 256, moesta p. 259, moerens, genualis, p. 262, scapularis p. 263, N. America, spp. n., Johannsen Bull. Agric. Exp. Sta. Maine 172.—P. argenteotomentosa, forcipata, spp. n., Peru, Kertesz Ann. Mus. Hung. 7 pp. 137-140.

Psilosciara gen. n. type Sciara membranigera Kieffen p. 246 Bull. Soc. ent. France 1909. Rondaniella nom. n. for Leia Meig., JOHANNSEN Gen. ins. 93 p. 66.

Sciara nivicola p. 246, nivata p. 247, spp. n. Algeria, Kieffer Bull. Soc. ent. France 1909.

Symmerus lenis n. n. for zonata Gigl.-T., Johannsen Agric. Exp. Sta. Maine 172 p. 229.

Tetragoneura peruana sp. n. Peru, Kertesz Ann. Mus. Hung. 7 p. 141. †T. peritula sp. n. Colorado Eocene, Cockerell Amer. J. Sci. 27 pp. 53-54.

Trichonta bifida p. 31, trifida p. 32, conjungens p. 33, sub/usca p. 35, Fennia spp. n. Lundström Helsingfors Acta Soc. Fauna et Fl. Fenn. 32 No. 2.

Trichosia quadristrigata sp. n. p. 127 Monistrol, Strobl Wien Verh. Zool-Bot. Ges. 59.

CHIRONOMIDAE.

Die Metamorphose der Chironomiden, Eine Bitte um Mitarbeit, THIENEMANN Bonn Verh. nathist. Ver. pp. 201–212.

Early stages of Chironomidae; Mundy, Leicester 1909 56 pp. & 8 pls.

Bezzia hydrophila sp. n. Deutšchl., KIEFFER Munster Jahresber. ProvVer. Wiss. 37 p. 32.—B. hydrophila sp. n. Dortmund, KIEFFER p. 38 Bull. Soc. Metz 26.

Ceratopogon flavipes var. n. flaviventris Spain, Strobl Wien Verh. ZoolBot. Ges. 59 p. 130.—C. stimulans Java and Sumatra salmi, vexans, Sumatra, spp. n., Meyere Tijdschr. Ent. 52 p. 197.

Chironomus brevimanus, cognatus, p. 53, versicolor, sanguineus, gregarius, pentatomus, distans, interruptus, percurrens, p. 54, pentatomus, polytomus, bryozoarum p. 55, signatus, p. 56, spp. n., Germany, Kieffer Bull. Soc. Metz 26.—C. percurrens, polytomus, bryozoarum, signatus, cognatus, versicolor, sanguineus, gregarius, interruptus, distans, pentatomus, spp. n. Deutschl., Kieffer Munster Jahresber. ProvVer. Wiss. 37 pp. 30–36.—C. multiannulatus spp. n. Spain, Strobl Wien Verh. Zool-Bot. Ges. 59 p. 131.

Cricotopus fuscipes, parvulus, longipalpis, petiolatus, brevipalpis, spp. n., Germany, Kieffer p. 45 Bull. Soc. Metz 26.—C. fuscipes, longipalpis, brevipalpis, parvulus, petiolatus, spp. n. Dcutschl., Kieffer Munster Jahresber. ProvVer. Wiss 37 pp. 31 32 36.

Culicoides; figures of African, Austen pp. 3-8 pl. i Africa blood-sucking flies.—C. habereri sp. n. Kamerun, Becker Stuttgart Jahresh. Ver. Natk. 65 p. 289.—C. grahamii p. 280, brucei p. 282, milnei p. 283, spp. n., Africa, Austen Ann. Nat. Hist. 3.—C. pungens sp. n. Sumatra, Meyere Tijdschr. Ent. 52 p. 200.

Dactylocladius tubicola, semivirens, spp. n. Deutschl., Kieffer Munster Jahresber ProvVer. Wiss. 37 p. 32.— D. semivirens tubicola, spp. n., Germany Kieffer Bull. Soc. Metz 26 p. 48.

Diamesa fissipes, prolongata, thienemanni, hygropetrica, spp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p. 33.—D. hygropetricra, thienemanni, prolongata, p. 40, fissipes p. 41, spp. n. Germany, Kieffer Bull. Soc. Metz 26.

Isocladius gen. n., albipes sp. n. Germany, Kieffer T.c. p. 44.—1. albipes sp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p. 36

Isoplasus bimaculatus sp. n. Germany, Kieffer Bull. Soc. Metz. 26 p. 43.

Johannseniella inermis, dentata, spp. n., Germany, Kieffer p. 38 Bull. Soc. Metz 26.—J. dentata, inermis, spp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p. 32.

Metrioenemus bifidus sp. n. Germany Kieffer Bull. Soc. Metz 26 p. 48.— M. bifidus sp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p. 33.

Orthocladius pedestris sp. n. Deutschl., Kieffer T.c. p. 32.—O. pedestris rivulorum, spp. n., Germany, Kieffer Bull. Soc. Metz 26 p. 48.

Paradiamesa gen. n., andina sp. n. Tupungato, Brèthes An. Mus. Buenos Aires 19 p. 86.

Frochironomus gen. n., pallidus sp. n Germany, Kieffer Bull. Soc. Metz 26 p. 53.—P. pallidus sp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p. 30.

Prodiamesa praecox, ichtyobrota, spp. n., Germany, Kieffer p. 39 Bull. Soc. Metz 26.

Psectrocladius dorsalis sp. n. Germany, KIEFFER T.c. p. 47.—P. dorsalis sp. n. Deustchl., KIEFFER Munster Jahresber. ProvVer. Wiss. 37 p. 31.

Psectrotanypus gen. n. p. 42, longicalcar, brevicalcar, spp. n., Germany p. 43, Kieffer Bull. Soc. Metz 26.—
P. brevicalcar sp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p 36.

Stenoxenus dimorphus sp. n. Pérou, Kieffer Ann. Mus. Hung. 7 p. 46.

Tanypus bifurcatus p. 41, sagittalis, distans, pectinatus, serratus, p. 42, spp. n., Germany, Kieffer Bull. Soc. Metz 26.—T. bifurcatus, sagittalis, serratus, pectinatus, distans, spp. n., Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 pp. 31-34.

Tanytarsus stratiotis, gregarius, inermipes, roseiventris, longimanus, p. 50, longicollis, virens, lauterborni, pentapoda, lapidicola, p. 51, raptorius, brevicalcar, p. 52, spp. n., Germany, Kieffer Bull. Soc. Metz 26.—L. lauterborni, raptorius, longimanus, longicollis, stratiotis, pentapoda, virens, gregarius, spp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 pp. 30-33.—T. tupungatensis sp. n. Mendoza, Brèthes An. Mus. Buenos Aires 19 p. 87.

Thienemannia gen. n. near Metriocnemus, gracilis sp. n. Germany, Kieffer Bull. Soc. Metz 26 p. 49.—T gracilis sp. n. Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 p. 33.

Trichocladius fuscus, flavus, halophilus, p. 46, fossarum p. 47, spp. n., Germany, Kieffer Bull. Soc. Metz 26.—T. fuscus, fossarum, halophilus, spp. n., Deutschl., Kieffer Münster Jahresber. ProvVer. Wiss. 37 pp. 31 34.

CULICIDAE.

Notes on the oriental catalogue; Meigen's names of 1803; BRUNETTI pp. 121 & 122 Canad. Ent. 41.

Culicidi studî e ricerche; Galli-Valerio e Rochaz-de-Jongh Roma Atti Soc. studî malaria 9 1908 pp. 1-9; 10 pp 1-5.

Moustiques en Grèce; CARDAMATIS Roma Atti Soc. studi malaria 8 1907 pp. 171-181 2 fig.—Moustiques anophèles en Grèce, CARDAMATIS Roma Atti Soc. studì malaria 9 1908 pp. 119-124 2 fig.

Stechmücken Culicidae, Speiser Königsberg Schr. physik. Ges. 49 pp. 389-397.

Deux larves carnassières; Gendre Paris Bull. soc. pathol. exot. 2 p. 147-150.

Larves d'Hydrachnides parasite des Culicides, Bruyant Paris C. R. soc. biol. 65 1908 pp. 706-707.

Culicidae of the Gold Coast, native names, etc., Graham Colon. Off. London No. 1723 pp. 14-23.

Moustiques qui vivent dans l'eau salée, CLERC Paris C. R. soc. biol. 66 pp. 120-121.

Modification expérimentale d'une habitude héréditaire chez un moustique, SERGENT Paris C. R. soc. biol. 66 pp. 108-110.

Aedeomyia catasticta sp. n. Philippine 1s., Knab Ent. News 20 p. 387.

Aedes pagetonotum Canada, pazosi Cuba, spp. n., Dyar & Knab Smithsonian Inst. Misc. Collect. Q. 52 pp. 253-255.—A. sansoni sp. n., Alberta, Dyar & Knab p. 102 Canad. Ent. 41.—A. thibaulti sp. n. Arkansas, Dyar & Knab Proc. Ent. Soc. Washington 11 p. 174.

Aedimorphus punctothoracis p. 4, albotaeniatus p. 5, Ashanti, spp. n., Theobald Colon. Off. Misc. 237.

Anopheles punctipennis var. = (perplexens Ludl.), Ludlow p. 293 Canad. Ent. 41.—A. perplexens hab. Philippines not N. America p. 21, formosus sp. n. Philippines p. 22 Ludlow Canad. Ent. 41.

Bancroftia persephassa sp. n. Cuba, Dyar & Knab Smithsonian Inst. Misc. Collect. Q. 52 p. 254.

Banksinella chrysothorax, taeniarostris, p. 13, punctocostalis p. 14, Ashanti, spp. n., Theobald Colon. Off. Misc. 237.

Bathosomyia gen. n. p. 9, abnormalis sp. n. p. 10 Ashanti, Theobald T.c.

Calvertia gen. n. for Chagasia sp., LUDLOW p. 22 Canad. Ent. 41.

Calvertina nom. n. for Calvertia Ludl., Ludlow p. 234 T.c.

Culex pseudoannulioris ornatothoracis, p. 15, nigrocostalis, chloroventer. p. 16, pallidothoracis, p. 17, Ashanti, THEOBALD Colon. Off. Misc. 237 p. 17. —C. drymoecius p. 42, leucarthrius p. 43, spp. n., Speiser Kilimandjaro-Meru Exp. 10 4—C. taytayensis p. 545, argentinotus p. 547, Rizal spp. n., BANKS Philippine J. Sci. 4 .- C. pipiens pl. ii f. 4, quinquefasciatus pl. i f. 1, q. dipseticus fig. 3, comitatus sp. n. California p. 35 pl. i f. 2, restuans pl. ii f. 5, salinarius p. iii f. 7 similis pl. iii f. 8, s. lachrimans f. 9, proximus Sp. n. Panama p. 38 pl ii, f. 6, DYAR & KNAB Proc. Ent. Soc. Washington 11.—C. ignobilis sp. n. Cuba, DYAR & KNAB, Proc. Ent. Soc. Washington 11 p. 39.—C. lactator loquaculus var. n., 254, elocutilis Panama, vindicator, dictator, Dominica, p 255, peccator Arkansas, revocator Jamaica, reflector Panama, p. 256, abominator Southern United States, spp. n., C. reductor nom. n. for Mochlostyrax jamaicensis Grabham, deceptor Florida, incriminator Mississippi, falsificator, p. 257, invocator, Cuba, duplicator Santo Domingo, p. 258, spp. n., lachrimans nom. n. for aikenii D. & K. p. 259, Dyar & Knab Smithsonian Inst. Misc. Collect, Q. 52.-C. trachycampa sp. n. Panama, DYAR & KNAB p. 101 Canad. Ent. 41.— C. cyaneus Fabr. = Sabethes locuples Rob. Desv., KNAB Proc. Ent. Soc. Washington 11 p. 155.—C. perturbans New Hampshire SMITH p. 425 Ent. News 20.—C. fowleri D'Emm. to Grahamia, microannulatus Th. = (rolandi D'Emm.), THEOBALD p. 297 Ann. trop. Med. 2.

Culicada fuscopalpalis, mediopunctuta, Ashanti, spp. n., Theobald Colon. Off. Misc. 237 p. 18.

Culicelsa accraensis sp. n. p. 19 with fuscus var. n. p. 20 Ashanti, Theobald T.c.

Culiciomyia uniformis sp. n. Ashanti, Theobald p. 8 T.c.

Deinocerites pseudes Panama, tetraspathus Guatemala, troglodytus Trinidad, Dyar & Knab Smithsonian Inst. Misc. Collect. Q. 52 p. 260.

Dendromyia argenteoventralis p. 24, affinis p. 25, Ashanti, spp n., Theobald Colon. Off. Misc. 237.

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Eumelanomyia gen. n., inconspicuosa sp. n., Ashanti, Theobald Colon. Off. Misc. 237 p. 10.

Grabhamia spencerii hab. doubtful, LUDLOW p. 22 Canad. Ent. 41.

Grahamia gen. n., trichorostris sp. n. Ashanti, Theobald Colon. Off. Misc. 237 p. 23.

Harpagomyia gen. n. near Aedes p. 165, splendens sp. n. Java myrmecophilous p. 167, Meyere Tijdschr. Ent. 52.

Hodgesia cuptopous sp. n. Ashanti, THEOBALD Colon. Off. Misc. 237 p. 25.

Kerteszia macgregori sp. n. Basilan Isl., BANKS Philippine J. Sci. 4 p. 548.

Limatus cacophrades Panama, methysticus Costa Rica, spp. n., DYAR & KNAB Smithsonian Inst. Misc. Collect. Q. 52 p. 226.

Lutzia bigotii, eggs, Jennings p. 49 Canad. Ent. 41.

Mansonia perturbans New Hampshire, Dyar Proc. Ent. Soc. Washington 11 pp. 145-149.—M. chrysogona sp. n. Phillippine Is., KNAB Ent. News 20 p. 386.

Melanoconion urichii Coq. to Carrollia Dyar & Knab p. 101 Canad Ent. 41.

Mucidus grahamii sp. n. Ashanti, Theobald Colon. Off. Misc. 237 p. 2.

Myxosquamus gen. n., confusus sp. n. Ashanti, Theobald p. 7 T.c.

Myxomyia ludlowii, BANKS Philippine J. Sci. (B. Medical Sciences). 3 pp. 335-341; life-history pp. 519-524, description pp. 524-526 habits of the adult pp. 526-528, BANKS Philippine J. Sci. (B. Medical Sciences) 2 1907 pp. 513-535.—M. rossii, Uebertrager Malaria, Vogel Genesk. Tijdschr. Ned. Ind. 49 pp. 585-595.—M. rossii, Uebertrager von Malaria, Vogel Genesk. Tijdschr Ned. Ind. 49 pp. 584-595.

Neopecomyia gen. n., uniannulata sp. n. Ashanti, Theobald Colon. Off. Misc. 237 p. 12.

Newsteadina gen. n. type aboricollis D'Emm., Throbald p. 297 Ann. trop. Med. 2.

Oculiomyia fulleri sp. n. Philippines, LUDLOW p. 97 Canad. Ent. 41.

Pectinopalpus gen. n., fuscus sp. n. Ashanti, Theobald Colon. Off. Misc. 237 p. 11.

Protomelanoconion gen. n., fusca sp. n. Ashanti, Theorald p. 20 T.c.

Pseudanourotaenia parangensis sp. n. Philippines, Ludlow p. 24 Canad. Ent. 41.

Reedomyia bipunctata sp. n. Ashanti, Theobald Colon. Off. Misc. 237 p. 5.

Stegomyia fasciata et Culex pipiens Biologie de, LEGENDRE Paris Bull. soc. pathol. 2 p. 425-427.—S. apicoargentea sp. n. Ashanti, THEOBALD Colon. Off. Misc. 237 p. 3.

Stenoscustus gen. n. p. 7. africanus sp. n. p. 8, Ashanti, Theobald T.c.

Taeniorhynchus? aureosquammatus sp. n. Philippines, Ludlow p. 234 Canad. Ent. 41.

Foxorhynchites phytophygus sp. n. Ashanti, Theobald Colon. Off. Misc. London 237 p. 1.

Uranotaenia bilineata, apicotaeniata, p. 21, ornatus, bimaculata, p. 22, Ashanti, spp. n., Theobald Colon. Off. Misc. 237.

—U. powelli sp. n. Philippines, Ludlow p. 235 Canad. Ent. 41.

Worcesteria grata, food habits, Sajó Termt. Közl. 41 p. 113.

Wycomyia nepenthicola sp. n. Benguet, Banks Philippine J. Sci. 4 p. 550.

W. pandora, onidus, p. 261, pantoia, symmachus, abrachys, p. 262, euethes, chresta, Panama, antoinetta Florida, p. 263, conchita Cuba, drapetes, cara, Trinidad, p. 264, cacodela, agyrtes, hapla, Panama, p. 265, spp. n., Dyar & Knab Smithsonian Inst. Misc. Collect. Q. 52.—W. intonca, rolonca, Panama, spp. n., p. 173, Dyar & Knab Proc. Ent. Soc. Washington 11.

PSYCHODIDAE.

Diplonema superstes sp. n. Kurscong, Annandale Calcutta J. As. Soc. Beng. 4 1908 p. 353. Pericoma nubila larva, THIENEMANN p. 65 Ann. Biol. lacustre 4.

Phlebotomus; natural history, Hew LETT Indian sandflies 3 pp.; Blanchard Arch. parasit. 13 pp. 303-310.—
P. pappatasi, Blanchard Paris Bulsoc. ent. 1909 pp. 192-195; Villeneuve t.c. p. 195; pappatasi = dubosqi N.-L., Picard p. 165 Bull. Soc. ent. France 1909.—P. duboscqi, Austen pp. 9-21 pl. i f. 4 African blood-sucking flies.—P. perturbans p. 201, angustipennis p. 202, spp. n. Java, Meyere Tijdschr. Ent. 52.

Psychoda legnothisa sp. n., Speiser Kilimandjaro-Meru Exp. 10 4 p. 44.

SIMULIIDAE, ORPHNEPHILIDAE.

Orphnephila testacea, metamorphoses pp. 69-74, taxonomy, distribution etc. pp. 74-81, THIENEMANN Ann. Biol. lacustre 4.

Simulium; the African, Austen pp. 22-35 pl. i figs. 5-8 African blood-sucking flics.—S. escomeli sp. n. Perou, Roubaud p. 428 Bull. Soc. pathol. exot. 2.—S. inexorabile, paranense, paraguayense, Paraguay, spp. n., Schrottky Zs. wiss. Inschenbiol. 5 p. 63.—S. columbacensis biologie et système digestif, Georgewitch Paris C. R. soc. biol. 67 pp. 540-542 fig.—S. nobile, female, Meyere Tijdschr. Ent. 52 p. 203.

BIBIONIDAE.

Bibio pyrrhonotus sp. n., Speiser Kilimandjaro Meru Exp. 10 4 p. 37.

†B. atavus sp. n. Miocene Colorado, Cockerell p. 173 Entomologist 42.

Eupcitenus ater Macq., wing figured, Coquillett Ent. News 20 p. 106.

Philia disagra sp. n., Speiser Kilimandjaro-Moru Exp. 10 4 p. 39.

Plecia ephippium p. 38, erubescens p. 39, spp. n., Speiser T.c.

Scatopse cingulipes sp. n. Algeciras Strobl Wien Verh. ZoolBot. Ges. 59 p. 124.

TIPULIDAE.

Aeshnasoma gen. n. near Tipula p. 115, rivertonensis sp. n. New Jersey p. 116 pl. xvi figs. 13-15, Johnson Proc. Soc. Boston 34.

Dicranomyia trinotata larva, THIENE-MANN p. 64 Ann. Biol. lacustre 4.—D. clivicola p. 46, tangentialis p. 47, spp. n., Speiser Kilimandjaro-Meru Exp. 10 4.—D. annulata sp. n. Auckland Islands, LAMB Subant. Isl. New Zealand 1 p. 129.

Ephelia czernyi sp. n. Algeciras, Strobl Wien Verh. ZoolBot. Ges. 59 p. 140.

Limnobia xanthoptera metamorphosis, Pastejřík Čas. České Spol. Entomolog. 1908 pp. 27-31.—L. fallax sp. n. New Jersey, Johnson Proc. Boston Soc. 34. p. 125.

Linnophila claduroneura sp. n., Spetser Kilimandjaro-Meru Exp. 10 4 p. 52 fig. 9.—1. alleni p. 126 pl. xvi fig. 18, irrorata p. 127 fig. 17, spp. n., U.S., Johnson Proc. Boston Soc. 34.

†L. meunicri nom. n. (gracilis Meun.), Cockerell Amer. J. Sci. 27 p. 58.

Limonia rhizoscma p. 48 fig. 6-7, miosema p. 50, orcsitropha p. 51 fig. 8, spp. n., Speiser Kilimandjaro-Meru Exp. 10 4.

Megistocera bicauda sp. n., Speiser p. 53 T.c.

Oropeza sayi nom. n. for Tipula annulata Say non Linné p. 118, similis pl. xv fig. 4, dorsalis p. 119 pl. xv fig. 6, venosa p. 120 fig. 9, albipes fig. 12, subalbipes p. 121 figs. 5 & 11, obscura p. 122 figs. 7 & 10, spp. n., U.S., obscura var. n. polita p. 122 fig. 8, Johnson Proc. Boston Soc. 34

Pachyrrhina lundbecki sp. n. East Greenland, Nielsen København Medd. Gronl. Hefte 29 pp. 363-404.—P. analis var. n. escorialensis, castellana var. n. croceiventris, crocata var. n. semifava, scalaris var. n. flavirostris, Strobl Wien Verh. Zoolbot. Ges. 59 p. 134.—P. quincunx p. 62, bistripunctata p. 64, spp. n., Speiser Kilimandjaro-Meru Exp. 10 4.

Rh pidia bryanti sp. n. Massachusetts p. 123 pl. xvi fig. 20, Johnson Proc. Boston Soc. 34.

Scamboneura distigma sp. n., Speiser Kilimandjaro-Meru Exp. 10 4 p. 54.

Tipula albostriata p. 138, jativensis p. 137, longidens p. 139, nitidicollis p. 136, villeneuvii p. 135, Spain, spp. n., STROBL Wien Verh. ZoolBot. Ges. 59. —T. asbolodes p. 57 fig. 10-11, eumecacera p. 58, capnioneura p. 59 fig. 12-13, alphaspis p. 60 fig. 14-15, spp. n., Speiser Kilimandjaro-Meru Exp. 10 4.—T. williamsii p. 17, silvestra, quaylii, p. 18, spp. n., California, with vestigial wings, Doane Psyche 16.—T. perlongipes nom. n. for filipes Walker non. Fabr. oropezoides, p. 131, jejnma p. 132, spp. n., U.S., Johnson Proc. Boston Soc. 34.—T. andina sp. n. Mondoza, Brethes An. Mus. Buenos Aires 19 p. 88.—T. lunata, larva, Brocher p. 42 Ann. Biol. lacustre 4.—T. trivitata larva and pupa, Greene Ent. News 20 p. 289 pl. xii.

†T. heeriana nom. n. (lineata Heer), Cockerell Amer. J. Sci. 27 p 58.—T. (?) hepialina sp. n. Colorado Miocene, Cockerell Amer. J. Sci. 28 p. 285 fig. 4.

Zaluscodes gen. n. Limnobiidae, aucklandicus sp. n. Auckland Islands, LAMB Subant. Isl. New Zealand 1 p. 130.

RHYPHIDAE.

Olbiogaster quinquefasciata sp. n. Brasilia, Enderlein Stettiner ent. Ztg 71 p. 65.

Rhyphus undulatus sp. n. Auckland Islands, Lamb Subant. Isl. New Zealand 1 p. 131.

STRATIONYIDAE, SCENOPINIDAE.

Dermatina new divisional name for Scenopinidae and Mydaidae, VERRALL Brit. flies 5 p. 41.

The Stratiomyidae of Great Britain, VERRALL Brit. flies 5 pp. 51-229.

Caenocephalus, Kertész Ann. Mus. Hung. 7 p. 386.

Craspedometoron gen. n., frontale sp. n. Formosa, Kertész p. 373 Taf. viii figs. 3 4 10 T.c.

Culcur; Gattung und simulans, KERTÉSZ p. 369 Taf. viii fig. 5 & 8 T.c.

Diplephippium amphicentrium, Kertész p. 380 Taf. viii figs. 7 9 & 13 T.c.

Eudmeta; Gattung und Arten, KERTÉSZ pp. 387-389 Taf. viii fig. 1 T.c.

Evaza nigripennis sp. n. Formosa, KERTÉSZ p. 372 T.c.

Hermetia hunteri sp. n. Texas, Co-QUILLETT p 212 Canad. Ent. 41. Hermione (Oxycera) trispila sp. n. Syria, Bezzi Broteria 8 p. 39.

Hoplodonta (Odontomyia) viridula forma viridula, KLEINE Intern. ent. Zs. 3 pp. 106-109 113-115.

Hypselophorum gen. n. Verw. mit Cyphomyia, cyphomyioides sp. n. Peru, Kertész Ann. Mus. Hung. 7 p. 381 Taf. viii figs. 2 11 & 12.

Lyprotemyia gen. n. Verw. mit Cynipimorpha, formicaeformis sp. n. Peru, Kertész p. 391 Taf. ix fig. 1 T.c.

Odontomyia laufferi sp. n. Pardo, STROBL Wien Verh. ZoolBot. Ges. 59 p. 291.—O. azurea sp. n. Afrique orientale, BECKER Bul. Muséum Paris 1909 p. 113.

Oxycera nigripes sp. n. Scotland, VERRALL p. 93 Brit. flies 5.

Pachygaster minutissima to Zabrachia, BEZZI p. 132 D. ent. Zs. 1909 Beih.

Pedinocera gen. n., longicornis sp. n. Peru, Kerrész Ann. Mus. Hung. 7 p. 392 Taf. ix figs. 2 3 & 11.

Popanomyia gen. n. femoralis sp. n. Peru, Kertész p. 393 Taf. ix figs. 12-14 T.c.

Ptecticus aurifer Formosa, Kertész p. 389 taf. ix fig. 4 T.c.

Rosapha; Gattung und Arten, Kertész pp. 376-380 Taf. viii figs. 6 Taf. ix 6-10 T.c.

Vittiger gen. n., schnusei sp. n. Peru, Kertész p. 395 T.c.

Wallacea Dol.; Gattung und Arten, tibialis sp. n. Formosa, Kerrész pp. 382-386 Taf. ix figs. 16-19 T.c.

TABANIDAE.

Tabanidae; Biologie, Beschreibung, Bekämpfung (Russ.) 4-te Aufl., Роктschinsky Trd. b. entom. učen. kom. Gl. Upr. Zeml. 2 8 1908 pp. 1-52 21 fig. i. T.

Illustrations and descriptions of African *Tabanidae*. Austen pp. 36– 135 pls. ii–ix African blood-sucking flies.

Atylotus jamaicensis sp. n. Jamaica, NEWSTEAD p. 465 Ann. trop. Med. 3.

Austenia gen. n. type Haematopota bullatifrons Austen, Surcouf Bull. Mus. Paris 1909 p 454. Bombylopsis gen. n. p. 646, pseudoanalis S. Paulo p. 647, leonina S. Paulo, p. 648, spp. n., LUTZ Zool. Jahrb. Suppl. 10

Bouvierella gen. n. p. 176, notata p. 177, proxima p. 179, brunnea p. 180, variegata p. 181, cincta p. 183, flava p. 184, spp. n., Madagascar, Surcour Bul. Mus. Paris 1909.

Chrysops fusciapex p. 684 S. Paulo, uruguayensis p. 687 Uruguay, bivittatus p. 688 Entrerios, brevifascia p. 689 Chaco de Sta. Fé, ecuadorensis p. 690 S. Antonio de Curaray, spp. n., Lutz Zool. Jahrb. Suppl. 10.—C. fixissimus, flavocinctus, dispar, Pratt Calcutta J. Trop. Vet. Sci. 4 pp. 390—392.—C. brimleyi & wing fig., Greene Ent. News 20 p. 302.

Chrysozona vulnerans p. 455, pellucida p. 457, spp. n. Africa, Surcouf Bull. Mus. Paris 1909.

Epipsila gen. n., eriomeriodes sp. n. S. Paulo, Lutz Zool. Jahrb. Suppl. 10 p. 649.

Erephopsis flavicrinis S. Paulo p. 633, nigricans Espirito Santo p. 637, brevistria S. Paulo p. 643, pubescens S. Paulo p. 644, spp. n., Lutz T.c.

Esenbeckia nigricorpus p. 662 Sta. Catharina, clari p. 663 S. Paulo, dubia p. 665 Argentinia, biscutellata p. 666 Paraguay, spp. n. Lutz T.c.

Haematoro'a atomaria, rubida and unizonata, Pratt Calcutta J. Trop. Vet. Sci. 4 pp. 390-392.

Ionopis gen. n. p. 650, foetterlei sp. n. p. 651, Rio de Janeiro, Lutz Zool. Jahrb. Suppl. 10.

Methoria gen. n. type Pangonia zig-zag Macq., Surcouf Bul. Muséum Paris 1909 p. 257.

Neopangonia gen. n. p. 651, pusilla sp. n. p. 652 S. Paulo, Lutz Zool. Jahrb. Suppl. 10.

Pangonia sulcata sp. n. pl. ix f. 32 Syria, Bezzi Broteria 8 p. 41.

Phaeoneura gen. n., Lutz Zool. Jahrb. Suppl. 10 p. 645.

Potisa gen. n. type Haematopota pachycara Bigot, Surcouf Bull. Mus. Paris 1909 p. 454.

Rhinomyza alveolata p. 185, maculata p. 187, spp. n. Madagascar, Surcour T.c.

Tabanus distinguendus sp. n. Britain p. 371, sudeticus var. perplexus p. 399, Verrall Brit. flies 5.—T. bromius var. n. flavofemoratus Escorial, STROBL Wien Verh. ZoolBot. Ges. 59 p. 292. -T. paradoxus Lebensweise, BAU p. 339 Ent. Ztg. Wien 28 .- T. fumifer, opatus, minimus, partitus and vagus, Pratt Calcutta J. Trop. Vet. Sci. 4 pp. 390-392.—T. mesnili sp. n. Africa, SURCOUF Bul. Muséum Paris 1909 p. 77. -T. marmorosus p. 351, pluto p. 352, canescens, roubaudi, p. 353, varians p. 354, irroratus p. 355, spp. n. Africa occ., SURCOUF T.c.—T. roubaudi p. 155, ignotus p. 223 & pl. iii, spp. n. Africa, Surcouf Etud. mor. Taban.—T. khasiensis p. 487, leucohirtus p. 488, bicallosus p. 489, nemocallosus p. 490, spp. n., RICARDO Ann. Nat. Hist. 3.—T. haimovitchae sp. n. Madagascar, Sur-COUF Bul. Mus. Paris 1909 p. 174.

†T. parahippi pl. xvi fig. 1, hipparionis fig. 2, spp. n., Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 67.

LEPTIDAE.

Atherix dispar p. 42, erythraspis p. 43 pl. ix fig. 8, spp. n., Syria, Bezzi Broteria 8.

Atrichops gen. n. for Atherix crassipes Mcig., Verrall p. 291 Brit. flies 5.

Glutops singularis, Johnson Psyche 16 p. 132.

Leptis guadarramensis sp. n. p. 166, lineola var. n. andalusiaca, Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 167.

†L. florissantina sp. n. Colorado Miocene, Cockerell Amer J Sci. 27 p. 58.—L. mystaceaeformis sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 69.

THEREVIDAE.

†Psilocephala hypogaea sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. p. 68 pl. xvi fig. 3 3a.—P. scudderi sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p 10 pl. i fig. 3.

Thereva nobilitata, larva and pupa, Collinge J. econ. Biol. 4 pp. 14-18 pl. iv.—T. albovittata p. 294, laufferi, xestomyzina, p. 168, spp. n., apicalis subsp. n. hispanica, Spain. Strobl. Wien Verh. ZoolBot. Ges. 59 p. 170.—

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T. seminitida sp. n. Afrique orientale, BECKER Bul. muséun Paris 1909 p. 115.

ASILIDAE.

Leptogastrinae and Dasypogoninae of N. America, BACK Trans. Amer. En.: Soc. 35 pp. 437-400 pls. ii-xii.

Ablautus rufotibialis sp. n. Texas, BACK Trans. Amer. Ent. Soc. 35 p. 182.

Apoclea autumnalis Arabia p. 286, continuata Persia p. 287, aperta Persia p. 291, plurisetosa Persia p. 293, arabica Arabia p. 294, spp. n., BECKER Berliner ent. Zs. 53.

Asilus lucentinus, p. 164, nevadensis, p. 163, quadriapiculatus p. 161, varispinus, p. 160, variipennis, p. 162, Spain, spp. n., chrysites var. n. nigrofemoralus,. p. 163 Madrid, STROBL Wien Verh. ZoolBot. Ges. 59 .- A. occidentalis p. 147 pl. xxii f. 7, auricomus p. 148 ff. 8. & 9, piceus ff. 10 & 11, montanus p. 149,. ff. 12 & 13, albicomus, lepidus, ff. 15 & 16, w.llistoni, p. 150, angustipennis, latipennis, p. 152, spp. n., flavofemoratus nom. n. p. 153, coquillettii, terminalis, p. 155, brevicomus p. 156, mancei p. 158 johnsoni p. 159, spp. n., snowii nom. n. p. 160, rubicundus p. 162, erythocnemius, californicus pl. xxiii f. 36, p. 164, cacopilogus p. 165, limpidipennis p. 167, spp. n. Colorado, fuscatus nom. n. p. 168, Hine Ann ent. Soc. Amer. 2.—†A. peritulus sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 69.

Cophura fallei sp. n. Colorado p. 378 pl. viii f. 5, BACK Trans. Amer. Ent. Soc. 35.

Cyrtopogon alleni p. 261, pulcher p. 274, rufotarsus p. 275, spp. n., U.S., BACK T.c.

Deromyia perplexa sp. n. New Mexico. p. 360, BACK T.c.

Dicolonus sparsipilosum sp. n. Montana p. 247 pl. ix f. 2, BACK T.c.

Dioctria vera sp. n. Califorina p. 256, BACK T.c.—†D. (?) florissantina Ckll. n. comb. p. 254, COCKERELL Ann. Ent. Soc. Amer. 2.

Erax; spp. eastern United States, synonymy, Johnson Psyche 16 p. 32.

Habropogon spissipes sp. n. Sinai, HERMANN Karlsruhe Verh natw. Ver. 21 Abh. p. 151. Holopogon dusmetii p. 156, flavotibialis p. 157, spp. n., Spain, Strobl Wien Verh. ZoolBot. Ges. 59.—H. atripennis p. 312 pl. xi f. 1, snowi p. 316 f. 2, umbrinus p. 317, spp. n., U.S., Back Trans. Amer. Ent. Soc. 35,

LICHTWARDT D. ent. Zs. 1909 p. 125.

Leptogaster atridorsalis p. 159, schaefferi Texas p. 170, spp. n., U.S., Back Trans. Amer. Ent. Soc. 35.

†Microstylum (?) destructum sp. n. Colorado Miocene, Cockerell Ann. Ent. Soc. Amer. 2 p. 254-255 pl. xxviii f. 2.

Neoitamus armatus sp. n. Afrique orientale, BECKER Bul. Muséum Paris 1909 p. 114

Neolaparus lugubris sp. n. Afrique orientale, BECKER p. 114 T.c.

†Nicocles miocenicus sp. n. Colorado Miocene, Cockerell Ann. Ent. Soc. Amer. 2 p. 255.

Paritamus gen. n. for Itamus sect. B Loew, VERBALL p. 679 Brit. flies 5.

Proagonistes praedo sp. n. Ruwenzori pl. iii f. 2 & p. 87, Austen Tr. zool. Soc. 19.

Protophanes nigrotinctus sp. n. Afrique orientale, BECKER Bul. Muséum Paris 1909 p. 114.

Mexico p. 348, BACK Trans. Amer. Ent. Soc. 35.

Stenopogon inermipes p. 292, taboardae p. 155, spp. n., Spain, Strobl Wien Verh. ZoolBot. Ges. 59.—S. (Scleropogon) cinerascens sp. n. Texas, Back Trans. Amer. Ent. Soc. 35 p. 208.

Stichopogon schineri var.? n. albosetosus Granada, Strobl Wien Verh. ZoolBot. Ges. 59 p. 158.—S. abdominalis Florida p. 332, fragilis New Mexico p. 334, spp. n., Back Trans. Amer. Ent. Soc. 35.

Townsendia fiebrigii sp. n. Paraguay,
BEZZI Ann. Mus. Hung. 7 p. 628 fig. 1.

—T. niger New Jersey p. 175, pulcherrima Texas p. 177, spp. n., BACK Trans.
Amer. Ent. Soc. 35.

Willistonina gen. n. type Habropogon bilineatus pl. iv f. 5 & vii f. 3, BACK T.c. p. 337

MYDAIDAE, APIOCERIDAE, PANTOPHTHALMIDAE.

Beitrag zur Kenntnis der Apioceriden, Nebst Bemerkungen über die systematische Stellung der Mydaiden und Asiliden; HERMANN D. ent. Zs. 1909 Beih. pp. 104-122 1 Taf.

Apiocera vulpes sp. n. Queensland, HERMANN D. ent. Zs. 1909 Beih. p. 108.

Mydas praegrandis sp. n. Brazil, Austen p. 130 Nov. zool. 16.

Rhaphiorhynchus rothschildi sp. n. Bolivia, Austen p. 129 T.c.

Ripidosyrma gen. n. for braunsi Mel., HERMANN D. ent. Zs. 1909 Beih. p. 104 & pl.

ACROCERIDAE.

Ogcodes, Mundöffnung, WANDOL-LECK Zool. Anz. 34 pp. 549-553.— Suppositious larva in egg-bag of Epcira, Collin p. 97 Entomologist 42.

Oncodes clavatus sp. n. Afrique orientale, BECKER Bul. Muséum Paris 1909 p. 113.

Pterodontia kashmirensis sp. n. Himalaya, Lichtwardt D. ent. Zs. 1909 p. 124.

BOMBYLIIDAE.

Ueber das Gehäuse einiger Bombyliidae, VIMMER Čas. České Spol. Entomolog. 1909 pp. 24-27.

†Alepidophora gen. n. p. 54, pealei sp. n. Colorado Miocene p. 55, Cockerell Amer. J. Sci. 27.

Anthracamoeba gen. n. near Spongostylum p. 515, obscura sp. n. Persia p. 516, SACK Abh. Senckenb. Ges. 30.

Anthrax circumdatus Mg. var. n. Algeciras, niphoblebtus var. n. castellanus Escorial, Strobel Wien Verl. ZoolBot. Ges. 59 p. 146.—A. (Argyromoeba) sp. n. Syria, Bezzi Broteria 8 p. 46.—A. angulata p. 89, mendozana p. 90, Mendoza, spp. n., Brèthes An. Mus. Buenos Aires 19.

Argyramoeba maculosa Pamir p. 526, heteropyga Corsika p. 531, polystigma Cyprus p. 534, spp. n., SACK Abh. Senckenb. Ges. 30.

Astrophanes and inus sp. n. Mendoza, Brèthes An. Mus. Buenos Aires 19 p. 91.

Bombylius senex var. n. violaceipes Spain, Strobl Wien Verh. ZoolBot. Ges. 59 p. 148.—B., rufo-antennatus, terminatus, spp. n. Afrique orientale, Becker Bul. Muséum Paris 1909 p. 115.

Chalcamoeba gen. n. für Anthrax virgo Egger p. 522, monacha sp. n. Persia p. 523, SACK T.c.

Chionamoeba gen. n. für Bibio nivea Rossi p. 543, semirufa sp. n. Porsia p. 545, Sack Abh. Senckenb. Gcs. 30.

Chrysamocba gen. n. near Spongostylum p. 516, vulpina sp. n. Persia p. 517, SAOK T.C.

Cyrtosia flavoruja sp. n. Spain, Strobl. Wien Verh. ZoolBot. Ges. 59 p. 151.

Leucamoeba gen. n. für Bibio aethiops Fab. p. 520, flava sp. n. Asia minor p. 521, SACK Abh. Senckenb. Ges. 30.

†Lithocosmus gen. n., coquilletti sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 71 pl. xvi fig. 4.

†Megacosmus gen. n., mirandus sp. n. Miocene Colorado p. 11 pl. i fig. 1, COCKERELL T.c.

†Melanderella gen. n., glossalis sp. n. Miocene Colorado, Cockerell T.c. p., 70.

Molybdamocba gen. n. für Anthrax tripunctatu Wied., SACK Abh. Senckenb. Ges. 30 p. 519.

†Pachysystropus gen. n. p. 56, rohweri sp. n. Colorado Miocene p. 57 fig. 1, Gockerell Amer. J. Soi: 27,

Phthiria lacteipennis sp. n. p. 151, pulicaria var. n. major p. 150 Spain, STROBL Wien Verh. ZoolBot. Ges. 59.

Psamatamoeba gen. n. für Anthrax isis Meig. p. 536, candida sp. n. Persia p. 538, Sack Abh. Senckenb. Ges. 30.

Satyramoeba gen. n. für Anthrax etrusca Fab., SACK T.c. p. 517.

Sinaia gen. n. kneuckeri sp. n. Sinai, HERMANN. Karlsruhe Verh. natw. Ver. 21 Abh. p. 149.

Spongostylum flavescens p. 512, flavipenne p. 513, sordidum p. 514, spp. n. Persia, SACK Abh. Senckenb. Ges. 30.

Systoechus niveus sp. n. Sinai, Her-MANN Karlsruhe Verh. natw. Ver. 21 Abh. p. 150.

Systropus arizonicus sp. n. Arizona, BANKS Ent. News 20 p. 18.

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NEMESTRINIDAE

Atriadops westwoodi sp. n. Neu Guines, LICHTWARDT D. ent. Zs. 1909 p. 650.

STORY TOTAL

Ceylonia gen. n., magnifica sp. n. Ceylon, Lichtwardt p. 646 T.c.

Hirmoneura austeni Assam, ochracea Burma, opaca Himalaya cingulata India, coffeata Ceylon, brunnea Ceylon, orientalis Formosa, spp. n., Lichwardt pp. 643-345 T.c.

Nemestrina nitidissima sp. n. Spain, Strobl Wien Verh. ZoolBot. Ges. 59 p. 144.—N. nigrovillosus. Hispania. p. 114, hermanni Algeria p. 116, persicus Persia p. 119, hirtus Turkestan p. 121, spp. n., LICHTWARDT D. ent. Zs. 1909.

Neorhynchocephalus gen. n. near Rhynchocephalus, Lichtwardt p. 512 T.c.

Nycterimorpha gen. n. noar Nycterimyia, speiseri sp. n. Queensland, Lichtwardt p. 648 T.c.

Nycterimyia gen. n. für Trichopsidea dohrni Wand., LICHTWARDT p. 648 T.c.

Stenopteromyia gen. n. für Nemestrinus bolivari Strobl, LICHTWARDT p. 509 T.c.

EMPIDAE.

Microphona; new divisional name for Empidae and Dolichopidae, VERRALL Brit. flies 5 p. 41.

Empidae, sex-relations of various species, Hamm pp. 157-162 Ent. Mag. 45.

Anacrostichus subgen. n. zu Empis, Bezzi D. enti Zs. 1909 Beih. p. 93.

Argyrandrus subgen. n. zu Empis, Bezzi p. 100 T.c.

Coptophlebia subgen. n. zu Empis, BEZZI p. 100 T.c.

Drapetis flavicollis sp. n. Afrique orientale, BECKER Bul. Muséum Paris 1909 p. 116.

Elaphropeza antennata sp. n. Afrique orientale, BECKER p. 115 T.c.

Empis; divided, pp. 85 etc., E. albifrons nom. n. für fana Loew, loewiana nom. n. dimidiata, p. 91, caucasica Kaukasus, testiculata Kreta, p. 92, metapleuralis Sarepta p. 93, spp. n., liosoma nom. n. für infumiata Becker p. 99, leptomorion Alpen p. 102, d. 33—2

corcyrica Korfu, coracina Frankreich, p. 103, spp. n., Bezzi D. ent. Zs. 1909 Beih.—E. algecirasensis, dusmetii, spp. n., Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 173 T.c.—E. spirifera p. 54, specularis p. 55, Lebanon, spp. n., Bezzi Broteria 8.—E. opaca sex-relations, HAMM pp. 132-134 Ent. Mag. 45.—E. spectabilis habits, MCATEE Ent. News 20 p. 359.

Haplomera schrottkyi sp. n. Paraguay, Bezzi Ent. Ztg Wien 28 p. 319.

Hemerodromia oratoria var. n. ca'aluna Spain, Strobl Wien Verh. Zool-Bot. Ges. 59 p. 178.—H. praecatoria, metamorphosis, Brocher p. 44 Ann. Biol. lacustre 4.

Heterempis gen. n., mendozana sp. n. Mendoza, Brèthes An. Mus. Buenos Aires 19 p. 92.

Hilara czernyi p. 176, escorialensis, p. 175, marginipennis, p. 176, pseudocornicula, p. 174, spp. n., cinereomicans var. n. trigemina, Spain, Stroble Werh. ZoolBot. Ges. 59 p. 175.—H. lucidifrons sp. n. Afrique orientale, Becker Bul, Muscum Paris 1909 p. 116.

Lissempis subgen. n. zu Empis, BEZZI D. ent. Zs. 1909 Beih. p. 99.

Microphorella subgen. n. vide Microphorus.

Microphorus; taxonomy, Microphorella subg. n. p. 25, Becker Ent-Ztg Wien 28.

Polyblepharis subgen. n. for Empis, Bezzi D. ent. Zs. 1909 Beih. p. 95.

Rhamphomyia bipila p. 171, pseudocrinita p. 170, Spain, spp. n., Strobl. Wien Verh. ZoolBot. Ges. 59.—R. empidiformis sp. n. Afrique occidentale, Becker Bul. Muséum Paris 1909 p. 116.—R. sulcata Fall. und cinerascens Meig., Kleine Soc. entomol. 24 p. 65.

Tachydromia pseudo-exigua, pseudounguiculata, spp. n., Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 181.

Tetraneurella beckeri sp. n. Deutschl., Dahl Berlin SitzBer. Ges. natf. Freunde 1909 p. 362.

Xanthempis subgen. n. zu Empis, Bezzi D. ent. Zs. 1909 Beih. p. 88.

DOLICHOPIDAE.

Asyndetus aurocupreus, late interruptus, Spain. spp. n., Strobl Wien Verh. ZoolBot. Ges. 59 p. 190.

Aphrosylopsis gen. n., lineatus sp. n. Bounty Islands, LAMB Subant. Isl. New Zealand 1 p. 132.

Aphrosylus fuscipennis sp. n. Algeciras, Strobi. Wien Verh. ZoolBot. Ges. 59 p. 193.

Chrysotus kerguelensis sp. n. Kerguelen, Enderlein D. Südpolar Exped. 10 H. 4 p. 435.

Diaphorus gredleri subsp. n. flavomaculatus Spain, Strobl Wien Verh. ZoolBot. Ges. 59 p. 191.

Dolichopus immaculatus sp. n. Dauphine, Becker Ent. Ztg Wien 28 p. 323. —D. laufferi sp. n., aratriformis var.? n. eciliata, Spain, Strobl Wien Verh. ZoolBot. Ges. 59 p. 184.

Epithalassius czernyi sp. n. Tarifa, Strobl p. 192 T.c.

Hercostomus laufferi nom. n. für Dolichopus laufferi Strobl, nigrohalteratus sp. n. Chartreuse, BECKER p. 324 Ent. Ztg Wien 28.

Micromorphus albosetosus sp. n. Algeciras, Strobl. Wien Verh. ZoolBot. Ges. 59 p. 189.

Neurigona biflexa sp. n. Algeciras, Strobl p. 183 T.c.

Orthochile barbicoxa sp. n. Granada, STROBL p. 186 T.c.

Scellus; Bestimmungsliste p. 325, gallicanus sp. n. Lautaret p. 326, BECKER Ent. Ztg Wien 28.

Schoenophilus pedestris sp. n. Macquarie Islands, Lamb Subant. Isl. New Zealand 1 p. 132.

Sciapus albovittatus sp. n. Algeeiras, Strobl Wien. Verh. ZoolBot. Ges. 59 p. 183.

Teuchophorus longipilus p. 187, tenuemarginatus p. 188, spp. n., Spain, Strobl. T.c.

PHORIDAE.

Aphiochaeta banksi p. 5 fig. 1, curtineura p. 6 fig. 2, Philippines, spp. n., Brues J. New York Ent. Soc. 17.

Chaetonura gen. n. for Phora pt. viz. urbana etc., MALLOCH p. 26 Glasgow Natural. 1.

Conoprosopa gen. n. Phoridarum, scutellata sp. n. Afrique occidentale, BECKER Bul. Muséum Paris 1909 p. 121. Cryptopteromyia gen. n., jeanssoni sp. n. Natal, Trägårdh Zool. Jahrb. Jena Syst. 28 pp. 328-329; Thaumatoxena Br. et Börn. und Termitodeipnus Enderl., Trägårdh T.c. pp. 329-347 1 Taf.

Phora (Aphiochaeta) fumata sp. n. Scotland, Malloch p. 35 Ent. Mag. 45.—P. crassipes p. 24, armata, rudis, affinis, p. 25, aequalis, flavescens, longiseta, rivalis, p. 26, surdifrons, parva, mallochi, glabrifrons, p. 27, propinqua, uliginosa, p. 28, collini p. 29, obscuripennis, conformis, p. 113, humilis, alticolella, hortensis, p. 114, nigripes, unguicularis, barbulata, beckeri, p. 115, fungivora, albipennis, p. 116, altifrons, pleuralis, p. 117, diversa, variabilis, subpleuralis, p. 118, frontalis, infraposita, vernalis, p. 119, cilipes, scutellaris, p. 120, tumida, denotata, p. 192, discreta, fusca, angusta, p. 193, hirtiventris, derasa, p. 194, subtumida, nudiventris, p. 195, spp. n., Britain, Wood Ent. Mag. 45.

Spiniphora gen. n. for Phora dorsalis Beck. etc., Malloch p. 26 Glasgow Natural. 1.

Stenophora gen. n. for Phora unispinosa etc., Malloch p. 27 T.c.

Trupheoneura gen. n. for Phora palposa etc., MALLOCH p. 27 T.c.

Woodia gen. n. for Phora gracilis Wood, Malloch p. 28 T.c.

PLATYPEZIDAE.

†Callimyia (?) hypolitha sp. n. Colorado Eocene, Cockerell Amer. J. Sci. 27 pp. 57-58.

PIPUNCULIDAE.

Pipunculus argyrostictus sp. n. Monistrol, Strobl Wien Verh. ZoolBot. Ges. 59 p. 210.

SYRPHIDAE.

Asarcina amoena pl. iii f. 4 & p. 88, punctifrons f. 5 & p. 89, spp. n., Ruwenzori, Austen Tr. zool. Soc. 19.—A. angustata sp. n. Afrique occidentale, Becker Bul. Muséum Paris 1909 p. 116.

Chilosia limbicornis sp. n. Spain, ruralis var. n. nevadensis, p. 199, STROBL Wien Verh. ZoolBot. Ges. 59.—†C. miccenica sp. n. Colorado, Cockerell Bull. Amer. Mus. 28 p. 72 pl. xvi fig. 5 5A.

Cnemodon; revision of the Swedish, anthracimus Zett. and ruficornis Zett. = fulvimanus Zett., morinellus and vitripennis new for Sweden, WAHLGREN Entomol. Tidskr. 30 p. 126.

Chrysogaster chalybeata var. n. coerulea, p. 207, hirtella var. n. claripennis p. 208, Spain, Strobl Wien Verh. ZoolBot. Ges. 59.

Helophilus interruptus sp. n. Campbell Island, LAMB Subant. Isl. New Zealand 1 p. 133.

Merodon podagricus sp. n. Corsica, VILLENEUVE p. 338 Ent. Ztg Wien 28.—M. geniculatus p. 203, unquicornis p. 205, spp. n., aeneus var n. unicolor p. 202, spinipes var. n. obscuritarsis p. 204, Spain, Strobl Wien Verh. Zool-Bot. Ges. 59.

Megaspis bulligera sp. n. Ruwenzori pl. iii f. 8 & p. 91, Austen Tr. zool. Soc. 19.

Melangyna quadrimaculata habits, Alderson p. 166 Ent. Mag. 45.

Melanostoma infuscatum sp. n. Afrique occidentale, BECKER Bul. Muséum Paris 1909 p. 117.

Microdon mutabilis larva, Donis-THORPE p. 18 & pl. ii Ent. Record 21.

Myiolepta difformis sp. n. Madrid, STROBL Wien Verh. ZoolBot. Ges. 59 p. 200.

Pelecocera pruinosomaculata var. n. escorialensis Escorial, STROBL Wien Verh. Zool. Bot. Ges. 59 p. 196.

Pipizella heringii var. n. hispanica Spain, Strobl p. 208 T.c.

Senaspis elliotii pl. iii f. 7 sp. n. Ruwenzori, aesacus Walk. f. 6, Austen p. 90 Tr. zool. Soc. 19.

Simoides descendens sp. n. Afrique occidentale, BECKER Bul. Muséum Paris 1909 p. 117.

Sphaerophoria scripta var. n. scutellata, Portevin Ann. Ass. Levallois-Perret 14 p. 25.

Sphegina limbipennis sp. n. Spain, Strobl Wien Verh. ZoolBot. Ges. 59 p. 195.

Syrphus junghausi sp. n. Deutschl., LANGE Annaberg Ber. Vcr. 12 p. 55.— S. willistoni sp. n. Miocene Colorado. COCKERELL Bull. Amer. Mus. 26 p. 9 fig. 1.—S. aphidopsidis sp. n. Colorado Miocene, Cockerell Ann. Ent. Soc. Amer. 2 pp. 253-254 pl. xxviii fig. 4.

CONOPIDAE.

Conops pliuchus p. 26, miuchus p. 27, O. (Physocephala) digitatus p. 28, spp. n., Speiser Kilimandjaro Meru Exp. 10 3.

Melanosoma mundum sp. n. Spain, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 260.—M. rubripes sp. n. France, VILLENEUVE Feuille jeunes natural 39 p 153.

Zodion perbellum sp. n, Speiser Kilimandjaro-Meru Exp. 10 3 p. 29.

OESTRIDAE, MASARYGIDAE.

Substances hémotoxiques sécretées par les larves d'Œstres, Weinberg Par's C. R. soc. biol. 65 1908 pp. 75-77.

Physiologie de l'appareil respiratoire des larves d'Œstres: Portier Paris C. R. soc. biol. 67 pp. 568-571.

Cephenomyia; Hoffmann Bonn SitzBer. Ges. Natk. 1908 natw. Abt. pp. 21-25.—C. Geschlechtszahlen; Frings & Nussbaum p. 25-31 T.c.

Hypoderma bovis, larval ethology; SORENSEN Entomol. Tidskr. 29 1908 pp. 65-120.

Masarygus gen. n. of fam. n. Masarygidae p. 441, planifrons sp. n. Buenos Airos p. 442, Brethes An. Mus. Buenos Airos 10.

Rhinoestrus purpureus, Parasit der Pferde und Menschen, Bau der Larve, Schutzfärbung, Portschinsky Trd. b. entom. učen. kom. Gl. Upr. Zeml. 6 6 1908 pp. 1-41 1 Taf. u. 9 fig. i. T.

MUSCIDAE CALYPTRATAE.

Bionomics of house flies; Hewitt Q. J. microsc. Sci. 54 pp. 347-414 pl. xxii.

Organes rudimentaires des larves des Muscides; Pantel Paris C. R. Acad. sci. 148 pp. 107-110.

Sur l'unification du nombre de segments dans les larves des Muscidés; PANTEL Paris C. R. Acad. sci. 148 pp. 233-236.

Notes synonymiques sur quelques Diptères; VILLENEUVE D. ent. Zs. 1909 pp. 677-679.

Zur Kenntnis des weiblichen Geschlechtsapparates; Cholodkovsky Zs. wiss. Insektenbiol. 5 pp. 333-337.

Tachinaires; Variations, VILLE-NEUVE p. 333 Ent. Ztg. Wien 28.

Investigations on the life-history of some muscoidean flies parasitic on insects; NIELSEN Ent. Medd. 2 R. 4 Disp. pp. 1-126 w. 4 plates.

Début de la phagocytose museulaire; Pérez Bordeaux Proc. verb. soc. sci. phys. nat. 1909 pp. 25-26.

Sur la métamorphoses des muscles chez les Muscidés; Pérez Paris C. R. Acad. sci. 148 pp. 1472-1474 & 1791-1793.

Musculature de l'intestin moyen des Muscidés pendant la métamorphose; Pérez Paris C. R. soc. biol. 66 pp. 436-7 38.

Second cas de myase hypodermique dans le Morbihan; TOPSENT Arch. parasit. Paris 13 pp. 483-489 fig.

Sur la myase des voies urinaires; CHEVREL Arch. parasit. 12 pp. 369-450.

Andesimyia gen. n. near Distichina, scutella sp. n. Mendoza, Brethes An. Mus. Buenos Aires 19 p. 97.

Anisia cinerea sp. n. Mendoza, Brèthes p. 100 T.c.

Anthomyia hyoscyami var. n. nigricornis Sud-Spanien, Strobl Wien Verh. ZoolBot. Ges. 59 p. 242.—A. spreta lifehistory, Lucas p. 241 pl. vi Entomologist 42.—A. radicum, larva, etc., Hewitt Q. J. microsc. Sci. 54 p. 355 pl. xxii figs. 2 & 3.

Araba czernyi sp. n. Spanien, Strobl. Wien Verh. ZoolBot. Ges. 59 p. 231.

Atylomia loewii var. n. nitidifrons Spain, STROBL p. 222 T.c.

Bdellolarynx gen. n. near Haematobia, sanguinolentus sp. n. India and Ceylon, Austen p. 290 Ann. Nat. Hist. 3.

Calliphora flavipes sp. n. Auckland Islands, Lamb Subant. Isl. New Zealand 1 p. 134.—C. erythrocephala, larva etc., Hewitt Q. J. microsc. Sci. 54 p. 358 pp. xxii figs. 8-12.

Campylocera unicolor sp. n. Afrique occidentale, Becker Bul. Muséum Paris 1909 p. 118.

Chrysomyia macellaria, Jamaica, NEWSTEAD p. 462 Ann. trop. Med. 3. Coenosia dealbata var. n. punctiventris Alicante, STROBL Wien Verh. ZoolBot. Ges. 59 p 245.—C. gigas sp. n. Afrique occidentale, BECKER Bul. Museum Paris 1909 p. 118.—C. anipila sp. n. Java, STEIN Tijdschr. Ent. 52 p. 268.—C. filipennis p. 138, fumipennis p. 139, Campbell Islands, spp. n. LAMB Subant. Isl. New Zealand 1.

Cordyligaster septentrionalis sp. n. Maryland, Townsend p. 250 Ann. Ent. Soc. Amer. 2.

Cordylobia, les larves parasites; GEDOELST Paris Bul. soc. path. exot. 1 pp. 596-600.

Cosmina claripennis p. 60 pl. ix f. 39, Bezzi Broteria 8.

Crossocosmia sericariae, Hibernation of Maggot (Japanese), Akashi Rep. Japan Sericultural Ass. 207 p. 1-3.

Cuphocera tricolor sp. n. Himalaya, LICHTWARDT D. ent. Zs. 1909 p. 126.

Cyclotaphrys gen. n., anser sp. n. Russia, Townsend p. 246, Ann. Ent. Soc. Amer. 2.

Czernya gen. n. ex aff. Micropalpus, longirostris sp. n. Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 217.

Dejeania wollastonii sp. n. Ruwenzori pl. iii f. 9 & p. 93, Austen Tr. zool. Soc. 19,

Deuterammobia maculosa sp. n. Sinai, HERMANN Karlsruhe Verh. natw. Ver. 21 Abh. p. 156.

Dexia inappendiculata sp. n. Ruwenzori pl. iii f. 11 & p. 97, Austen Tr. zool. Soc. 19.

Disjunctio guyoti sp. n. Sinai, Hermann Karlsruhe Verh. natw. Ver. 21 Abh. p. 155.

Echinomyia (Lausseria subg. n.) fulvicornis sp. n. Spain, Strobi. Wien Verh. ZoolBot. Ges. 59 p. 219.

Eucelatoria gen. n. for Tachina armigera Coq., Townsend p. 249 Ann. Ent. Soc. Amer. 2.

Eudoromyia, type is magnicornis Zett., Townsend p. 244 Canad. Ent. 41.

Eumasicera gen. n., coccidella sp. n. U.S., Townsend Ann. Ent. Soc. Amer. 2 p. 249.

Eupeleteria, type is Echinomyia fera, Townsend p. 244 Canad. Ent. 41.

Gesneriodes nom. n. fur Gesneria, VILLENEUVE p. 47 Ent. Ztg. Wion 28,

Clossina; in Deutsch. Ostafrika, STEUDEL Kol. Rdsch. 1909 pp. 713-749; Clossina, Infection naturelle de la trompe; ROUBAUD Paris Bul. soc. path. exot. 1 1908 pp. 564-568; ihre verheerende Tätigkeit, KÜRCHHOFF Natw. Wochenschr. 24 pp. 145-153.—G. palpalis conditions de viviparité et de vie larvaire, ROUBAUD Paris C. R. Acad. sci. 148 pp. 195-197; bionomics, Hodges Sleeping sickness bureau 28 pp.; distribution, NEAVE J. econ. Biol. 4 p. 109; ROUBAUD These Fac. sci. Paris pp. 280 av. Baud These Fac. sci. Paris pp. 280 av. gg.—†G. osborni sp. n. Miocene Florissant, Cockerell p. 128 Nature 80.

Graphogaster vestita Rond. varr. in andalusiaca and nigriventris, Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 223.

Graphomyia vittata p. 206 sp. n. Java, mellina p. 207, Stein Tijdschr. Ent. 52.

Haematobia sanguisugens sp. n. India, Austen p. 288 Ann. Nat. Hist. 3.

Hebecnema nitens sp. n. Java, Stein Tijdschr. Ent. 52 p. 223.

Homalomyia canicularis, pp. 354 & 355, larva pl. xxii f. l, Hewitt Q. J. microsc. Sci. 54.

Hylemyia coarctata destructive to wheat, FRYER & FRYER p. 134 Ent. Mag. 45; Nord de la France, MARCHAL Paris Bull. soc. ent. 1909 p. 196.

Laufferia subgen. n. vide Echinomyia.

Limnophora approprinquans p. 2444 tonsa p. 245, caduca p. 247, subtilis p. 249, distincta p. 251, spp. n., Java, Stein Tijdschr. Ent. 52.—L. lasiophthalma sp. n. Auckland Islands, LAMB Subant. Isl. New Zealand 1 p. 135.

Lispa geniseta p. 256, pallitarsis p. 259, flavicornis p. 260, bivittata p. 262, spp. n., Java, Stein Tijdschr. Ent. 52, —L. sinensis destroying Culicid larvae, Atkinson J. trop. Med. 12 p. 255.

Lucilia sericata, sheep maggot, Mac-DOUGALL Trans. Highland Agric. Soc. 1909 42 pp.

Lyperosia punctigera sp. n. Uganda, Austen p. 285 Ann. Nat. Hist 3; Austen pp. 160–162 pl. xiii f. 103 African blood-sucking flies. Macquartia maculifemur sp. n. Spain, STROBL Wien Verh. ZoolBot. Ges. 59 p. 214.

Meigenia bisignata parasite de Lina, RABAUD Feuille jeunes natural. 39 p. 101.

Melanochila insularis sp. n. Campbell Island, LAMB Subant. Isl. New Zealand 1 p. 137.

Microphtalma longifacies, Parasit :schädlicher Lamellicornier, Krasiliščik Kišinev Trd. Obšč. jest. 1 pp. 358-395.

Mikia aterrima sp. n. Thüringen, STROBL Wien Verh. ZoolBot. Ges. 59 p. 220.

Musca pollinosa p. 211, nigrithorax p. 212, inferior p. 213, spp. n., Java, Stein Tijdschr. Ent. 52.—M. domestica and allies, relations to disease; Hewitt Q. J. microsc. Sci. 54 pp. 347-414 pl. xxii.—Japanese house fly, Metamorphosis and habits of, (Japanese), Kobayashi Dobuts Z. 21 pp. 335-341.

Muscina longicornis sp. n. Java, Stein Tijdschr. Ent. 52 p. 221.—M. stabulans, Hewitt Q. J. microsc. Sci. 54 p. 300.

Mydaea tuberculi/acies p. 226, surgens p. 227, impur p. 229, pectinipes p. 230, latitarsis p. 232, dolosa p. 235, nitidiventris, pallitarsis, p. 236, maculiventris p. 237, ruficoxa, nervosa, p. 240, cognata p. 241, spp. n., Java, Stein Tijdschr. Ent. 52,

Myexorista roseanae, host etc., Collin p. 1 Entomologist 42.

Ophyra cadaverina, physiology, Tangl. Arch. ges. Physiol. 130 pp. 1-54.

Parachaeta; Townsend p. 250 Ann. Ent. Soc. Amer. 2.

Paragermaria gen. n., autumnalis sp. n. Masschusetts, Townsend p. 247 T.c.

Paralimnophora gen. n., depressa, p. 136, indistincta p. 137, spp. n., Enderby and Antipodes Islands, Lamb Subant. Isl. New Zealand 1.

Pareudora; type is praeceps, Towns-END p. 244 Canad. Ent. 44.

Pegomyia conformis, Anatomie der Larven, Vimmer Čas. České Spol. Entomolog. 1909 p. 113; P. rutila sp. n. Java, Stein Tijdschr. Ent. 52 p. 266.

Phaonia nepenthineola sp. n. Java, Stvin p. 222 T.c.

Phasmophaga gen. n. p. 243, antennalis Wisconsin, meridionalis Texas, spp. n., p. 244, Townsend Ann. Ent. Soc. Amer. 2.

Philaematomyia gen. n. near Musca p. 295, insignis sp. n. p. 298 India, Africa, Sokotra and Cyprus, Austen Ann. Nat. Hist. 3; Austen pp. 136– 141 pl. xiii figs. 96 & 97 African bloodsucking flies.

Phorocera metallica sp. n. Afriquo occidentale, Becker Bul. Muséum Paris 1909 p. 117.—P. serriventris, lifehistory, Wesché J. Quek. Cl. 10 pp. 451 & pl. xxxvi.

Plagia hilfii var. n. sinaica, HERMANN Karlsruhe Verh. natw. Ver. 21 Abh. p. 157.

Pollenia rudis dans Allolobophora chlorotica; Keilin C. R. soc. biol. 67 pp. 201-203.

Pseudomintho microptera sp. n. Syria, Bezzi Broteria 8 p. 59.

Pseudophorocera brunnescens sp. n. Afrique occidentale, Becker Bul. Museum Paris 1909 p. 117.

Pygophora maculipennis sp. n. Krakatau, Stein Tijdschr. Ent. 52 p. 271.

Rondania; Synonymie, VILLENEUVE p. 337, dispar var. n. alpina Col. du Lautaret, p. 338, VILLENEUVE Ent. Ztg. Wien 28.

Rhynchomyia rupceps var. n. transiens Spain, Strobl Wien Verh. Zool-Bot. Gos. 59 p. 234.

Rileyella gen. n. type Tachina aletiae Riley, Townsend p. 249 Ann. Ent. Soc. Amer. 2.

Rhinia tristriata sp. n. Afrique occidentale, Becker Bul. Muséum Paris 1909 p. 118.

Sarcophaga schultzei sp. n. Deutschl., Kramer Ent. Rdsch. 26 p. 83.—S. notatipennis pl. iii f. 12 & p. 98, inaequalis f. 13 & p. 99, spp. n. Ruwenzori, Austen Tr. zool. Soc. 19.—S. carnaria marget living on dead silkworms (Japanese), Niwa Rep. Japan Sericultural Ass. 209 p. 21.

Saundersia marginalis, discalis, Mendoza spp. n., Brèthes An. Mus. Buenos Aires 19 p. 95.

Sericophoromyia gen. n. near Chaetolyga p. 95, claripilosa sp. n. Ruwenzori

pl. iii f. 10 & p. 96, Austen Tr. zool. Soc. 19.

Setulia grisea and allies, WAIN-WRIGHT p. 275 Ent. Mag. 45.

Sisyropa hemerocampae sp. n. District of Columbia, Townsend Ann. Ent. Soc. Amer. 2 p. 248.

Sphecapatoclea gen. n., excisa sp. n. Sinai, Hermann Karlsruhe Verh. natw. Vcr. 21 Abh. p. 155-156.

Stomatomyia acuminata var. n. sinaica, Hermann Karlsruhe Verh. natw. Ver. 21 Abh. p. 157.

Stomoxys; the african, Austen pp. 141–159 pl. xiii African blood-sucking flies.—S. limbata p. 292, pusilla p. 293, pulla p. 294, spp. n., India, Austen Ann. Nat. Hist. 3.—S. calcitrans, larva, etc., Hewitt Q. J. microsc. Sci. 54 p. 356 pl. xxii figs. 4-6; S. calcitrans et le bétail argentin, Iches Paris Bul. soc. nat. acclim. 56 pp. 104–111.

Stygeromyia sanguinaria sp. n. Africa, Austen p. 286 Ann. Nat. Hist. 3.

Styloneuria; Synonymie, VILLE NEUVE p. 337 Ent. Ztg Wien 28.

Tachina japonica sp. n. Japan, Townsend Ann. Ent. Soc. Amer. 2 p. 247.

Trichophora maculiventris sp. n. Mendoza, Brèthes An. Mus. Buenos Aires 19 p. 99.

Trichopticus (?) curvipes sp. n. Auckland Islands, Lamb Subant. Isl. New Zealand 1 p. 138.

Tryptocera (Actia) villeneuvii sp. n. Elche, Strobl Wien Verh. ZoolBot. Ges. 59 p. 221.

Vibrissina flavocalyptrata sp. n. Mendoza, Brèthes An. Mus. Buenos Aires 19 p. 94.

MUSCIDAE ACALYPTRATAE.

Swedish insect fauna, Aschiza; WAHL-GREN Entomol. Tidskr. 30 pp. 1-86 figs.

Genera of *Pyrgotinae* and lists of the species, Hendel Gen. ins. 79 33 pp. & 1 pl.

Acidia alata sp. n. Afrique occidentale, Becker Bul. Muséum Paris 1909 p. 119.—A. fratria, life history and habits pp. 9-13 ff. 1 & 2, CHITTENDEN U. S. Dept. Agric. Ent. Bull. 82 Part 2.

Aciura sexfissata sp. n. Afrique occidentale, Becker Bul. Muséum Paris 1909 p. 119.

Acrosticta; Bestimmungstabelle der Arten; A. ruficauda Peru, A. profunda Bolivia, spp. n., p. 248, Hendel Ent. Ztg Wien 28.

Adapsila coaretata pl. i f. 7 & p. 14, HENDEL Gen. ins. 79.

Agromyza infumata, leucoptera, p. 264, xanthocera p. 263, Spain, spp. n., Czerny Wien Verh. ZoolBot. Ges. 59.

—A. distantinervis, argenteolunulata, p. 294. A. beckeri, monfalconensis, p. 295, A. (Domomyza) flavocingulata, p. 296, spp. n., Austria, Strobl Ent. Ztg. Wien 28.—A. erythrinae sp. n., Galle, Docters van Leeuwen & Meyere Salatiga Cultuurgids 11 pp. 227-240 l Tat.

Allophylopsis gen. n. Helomyzidae p. 142, punctata sp. n. p. 143 The Snares, LAMB Subant. Isl. New Zealand 1.

Anacampta unimaculata sp. n. Escorial, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 250.

Anastrepha; specie, Bezzi Portici Boll. Lab. zool. agr. 3 pp. 280–286 2 fig.

Anatalanta crozetensis sp. n. Crozet Inseln p. 400, aptera Eat. var. n. gracilis, Kerguelen, Enderlein p. 430 D. Südpolar Exped. 10 H. 4.

Antrops gen. n. Borboridae, truncipennis sp. n. Feuerland, Enderlein Zool. Anz. 34 pp. 225-230.

Asimoneura gen. n. ex aff. Euribiidae (Trypetidae), stroblii sp. n. Monistrol, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 253.

Aspistomella gen. n. Ulidiinae, lobioptera Bolivia, p. 264, heteroptera Peru p. 266, spp. n., HENDEL Ent. Ztg. Wien 28.

Athyroglossa brunnimana sp. n. Spain, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 269.

Axiologina gen. n. Ulidiinae, A. ferrum-equinum sp. n. Peru, HENDEL Ent. Ztg. Wien 28 p. 268.

Baeopterus gen. n. Phycodromidae p. 141, robustus sp. n. p. 142 Campbell & Ewing Islands, LAMB Subant. Isl. New Zealand 1. Balioptera paganettii sp. n. Schlesien, STROBL p. 293 Ent, Ztg. Wien 28.

Blepharoptera serrata, Anatomie der Larven, Vimmer Čas. České Spol. Entomolog. 1909 pp. 109-113.

Borboridae, passengers on Scarabaeus, FLETCHER p. xlvi P. ent. Soc. London 1909.

Borborus fuscanus sp. n. Afrique occidentale, Becker Bul. muséum Paris 1909 p. 120.

Bothrometopa gen. n. Pterocallini, gamma sp. n. Peru, Hendel D. ent. Zs. 1909 p. 66; p. 39, Hendel Gen, ins. 96.

Bromophila caffra pl. figs. 26 & 27 & p. 28, HENDEL Gen. ins. 79.

Calycopteryx moseleyi Eat. var. n. minor Heard-Insel, Enderlein D. Südpolar Exped. 10 H. 4 p. 469.

Campylocera brevicornis pl. i figs. 10-12 & p. 16, HENDEL Gen. ins. 79.

Cenchrometopa gen. n. Ulidiinae, C. curvinervis sp. n. Peru, Hendel Ent. Ztg. Wien 28 p. 251.

Ceratitis; specie, Bezzi Portici Boll. Lab. zool. agr. 3 pp. 273-280 1 fig.— C. striata sp. n. Ceylon, Froggatt Parasitic and injurious insects p. 111.

Ceratomyza semivittata sp. n. Monfalcone, STROBL p. 297 Ent. Ztg. Wien 28.

Chaetopsis; Bestimmungschlüssel, p. 255, praeceps, mucronata Brasilien, p. 255, C. (Stenomyia) laticauda Paraguay, angusta Brasilien, p. 256, spp. n., HENDEL Ent. Ztg. Wien 28.

Chlorops quadrimaculata sp. n. Algedras, CZERNY Wien Verh. Zool-Bot. Ges. 59 p. 285.—C. anthracophagoides p. 285, grandicornis p. 286, pallifrons p. 287, spp. n. Austria, STROBL Ent. Ztg. Wien 28.

Chondrometopum gen. n. Pterocallini, circuatum sp. n. Peru, HENDEL D. ent. Zs. 1909 p. 9; p. 9, HENDEL Gen. ins. 96.

Chrysomyza africana nom. n. fur clausa Karsch 1887, chalybea Turkmenien, longicornis Formosa & Ceylon, spp. n., Hendel Zool. Anz. 84 pp. 615-621.

Coelopa debilis, nigrifrons, spp. n. Campbell & Macquarie Islands, Lamb Subant. Isl. New Zealand 1 p. 140.

Coniosternum nigrohirtum sp. n., Spain, Czerny Wien Verh. ZoolBot. Ges. 59 p. 248.

Coscinum gen. n. Pterocallini, clavipes sp. n. Peru, Hendel D. ent. Zs. 1909 p. 68; p. 41, clavipes pl. iv figs. 75-77, Hendel Gen. ins. 96.

Crassiseta; Zugehörigkeit zu Elachiptera, Becker p. 95 Ent. Ztg. Wien 28.—C. tuberculifera, trapezina, Italia, strobli Spagna, spp. n., Corti Firenzo Boll. Soc. Entom. 40 (1908) 1909 pp. 121-162.

Cyrtomostoma gen. n. Pterocallini, gigas sp. n. Bolivia, Hendel D. ent. Zs. 1909 p. 64; p. 37, gigas pl. iv. figs. 67-69, Hendel Gen. ins. 96.

Dacus: specie, Bezzi Portici Boll. Lab. zool. agr. 3 pp. 287-313 1 fig.— D. frenchi, ornatissima, New Caledonia curvipennis Fiji, spp. n., FROGGATT Parasitic and injurious insects pp. 92-93.—D. æqualis sp. n. Gosford N. S. Wales, Coquillet Proc. Linn. Soc. 33 p. 794.

Dasymetopa ochracea p. 21, fumipennis, septempunctata p. 22, sordida p. 23, nigropunctata p. 24, stigma p. 25, lutcipennis p. 78, fenestrata p. 79, Bolivia, Peru, spp. n., Hendel D. ent. Zs. 1909.—D. ochracea Hend. pl. ii figs. 35 & 36 & p. 33, Hendel Gen. ins. 96.

Diasteneura laticeps pl. figs. 20 & 21 & p. 24, Hendel Gen. ins. 79.

Dichromyia sanguiniceps, pl. figs. 28-30 & p. 30, Hendel T.c.

Discocerina (ricolor sp. n. Spain, CZERNY Wien Verh, ZoolBot, Ges. 59 p. 268.

Ditaenia stroblii sp. n. Spain, CZERNY p. 255 T.c.

Elachiptereicus gen. n. Chloropinarum p. 119, bistriatus sp. n. p. 120 Afrique occidentale, Becker Bul. museum Paris 1909.

Etapata gen. n. Pterocallini, remipes sp. n. Peru, Hendel D. ent. Zs. 1909 p. 64; p. 33, remipes pl. iv figs. 64-66 Hendel Gen. ins. 96.

Euaresta subpura sp. n. New Jersey, Johnson Psyche 16 p. 114, Eumecosomyia gen. n. Ulidiinae p. 269 type Epiplatea gracilis Coq., lacteivittata sp. n. p. 270 Mexiko, Hendel Ent. Ztg. Wien 28.

Eumorphomyia tripunctata pl. figs. 15 & 16 & p. 20, Hendel Gen. ins. 79.

Eupyrgota scioida pl. figs. 13 & 14 & p. 19, HENDEL T.c.

Eurina chloropoides sp. n. Monfalcone, Strobl p. 284 Ent. Ztg. Wien 28.

Eutropha nitidifrons sp. n. Tarifa, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 284.

Euxesta bilimeki Mexico, acuta, arcuata, geminata, insolita, lunata, schnusei, stigma, Peru, maculata, lacteipennis, Bolivien, acuticornis Paraguay, obliquestriata, wettsteini, Brasilien, spp. n., schineri nom. n. HENDEL Ann. Mus. Hungar. 7 pp. 151–172.

Fucellia pictipennis sp. n. East Greenland, Nielsen Köhenhavn Medd. Grönl. Hefte 29 pp. 363-404.

Gampsocera inornata sp. n. Italia. Corti Firenze Boll. Soc. Entom. 40 pp. 121-162.

Geloemyia stylata pl. figs. 17-19 & p. 22, HENDEL Gen. ins. 79.

Geomyza buliogastra, sanferdinandi, Spain spp. n., CZERNY Wien Verh. ZoolBot. Ges. 59 p. 281.

Glenanthe nigripes sp. n. Bobadilla, CZERNY p 270 T.c.

Goniaea gen. n. Pterocallini, foveolata sp. n. Bolivia, HENDEL D. ent. Zs. 1909 p. 71.

Goniaeola nom. n. für Goniaea Hendel 1909, HENDEL D. ent. Zs. 1909 p. 114; p. 44, foveolata pl. iv. figs. 82 & 83, HENDEL Gen. ins. 96.

Hydrellia punctum sp. n. Afrique occidentale, BECKER Bul. muséum Paris 1909 p. 120.

Icaridion gen. n. Phycodromidae p. 140, nasutum sp. n. p. 141, Campbell Islands, LAMB Subant. Isl. New Zealand 1.

Lasiochaeta gen. n. typ. pubescens Thal., Corti Firenze Boll. Soc. Entom. 40 pp. 121-162. Lauxania albomaculata sp. n. Admont, STROBL p. 283 Ent. Ztg. Wien 28.

21 36 3 13 t

Lauxaniinae; Metamorphose, Mei-JERE Zs. wiss. Insektenbiol. 5 pp. 152-155.

Leria limbinervis sp. n. Escorial, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 274.

Limneria deichmanni sp. n. East Greenland, Nielsen København Medd. Grønl. Hefte 29 pp. 363-404.

Limnia stichospila sp. n. Monistrol, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 257.

Limosina pseudonivalis p. 369, longisetosa p. 370, parapusio p. 371, nigrinervis p. 374, nigricornis p. 375, brevispina p. 376, spp. n. Deutschl., DAIL Berlin SitzBer. Ges. natf. Freunde 1909.—L. claviventris p. 299, monfalconensis p. 300, Monfalcone, spp. n., Austria, Strobl Ent. Ztg. Wien 28.

Listriomastax gen. n. Phycodromidae p. 396, litorea sp. n. p. 398 Possession-Insel, Enderlein D. Südpolar Exped. 10 H. 4.

Loxoneura formosae sp. n. Formosa, Kertész Ann. Mus. Hung. 7 p. 337.

Megalaemyia gen. n. Pterocallini p. 3, elsae p. 4, punctulata p. 5, albostriata p. 6, bestifer Bolivia & Peru p. 7, fenestellata Mexico, costalis, p. 8, radiata Bolivia, marginata Peru, p. 72. spp. n., HENDEL D. ent. Zs. 1909 Beih.; p. 7, type elsae Hend., HENDEL Gen. ins. 96.

Megaglossa nervosa sp. n. Afrique occidentale, Becker Bul. museum Paris 1909 p. 118.

Microneurum brevinerve p. 287, securiferum p. 288, Admont, spp. n., Strobl Ent. Ztg. Wien 28.

Mixocordylura gen. n. Cordylurinae p. 778, longifacies sp. n. Mongolei p. 782, HENDEL D. ent. Zs. 1909.

Myennis tricolor Turkmenia p. 11, nigra Peru p. 12, appendiculata p. 14, zebra, Brasilia, p. 15, cyaneiventris Bolivia p. 73, spp. n., HENDEL D. ent. Zs. 1909; pl. i figs. 15-17, scutellaris Wied. pl. ii figs. 24 & 25, HENDEL p. 13 Gen. ins. 96.

Myrmemorpha Luf., abgelehnter Gattungsname, brachyptera, Becker p. 91 Ent. Ztg. Wien 28.

Ochthera setigera sp. n. Algeciras, CZERNY Wien Verh. ZoolBot. Ges. p. 271.

Oedopa ascriptiva sp. n. Colorado, HENDEL p. 267 Ent. Ztg. Wien 28.

Ophthalmoptera gen. n. Pterocallini longipennis p. 69, bipunctata Bolivia p. 70, elegans Peru p. 83, spp. n., HENDEL Gen. ins. 96.

Oscinella deficiens sp. n. Afrique occidentale, Becker Bul. muséum Paris 1909 p. 120.

Oscinis xanthopyga p. 290, beckeri p. 291, spp. n., Austria, Strobl Ent. Ztg. Wien 28.

Paragorgopsis clathrata p. 59, schnusei p. 60, cancellata, mallea, Bolivia & Peru, p. 61, spp. n. HENDEL D. ent. Zs. 1909; P. mallea Hend. pl. iii figs. 57-60 & p. 29, HENDEL Gen. ins. 96.

Parallelomma hispanicum sp. n. Algeciras, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 247.

Paraphyola gen. n. Ulidiinae, angustifrons, crucifera, spp. n. Peru, HENDEL Ent. Ztg. Wien 28.

Philhygria nubeculosa sp. n. Admont, Strobl Ent. Ztg. Wien 28 p. 292.

Phytomyza longicornis sp. n. Algeeiras, CZERNY Wien Verh. ZoolBot. Ges. 59 p. 265.—P. flavofemorata Bereechtigung; acuminata, czernyi p. 298, spp. n., Austria, STROBL Ent. Ztg. Wien 28.—P. xylostei, TRäckrdh Zs. wiss. Insektenbiol. 5 pp. 301–304.

Piophila casei, Allessandrini Arch. parasit. 13 pp. 337-382; Maden, Krausse Zs. wiss. Insektenbiol. 5 pp. 394-398.

Platyparea paciloptera Schrenk aux environs de Paris, Lesne Paris C. R. Acad. sci. 148 pp. 197-200.

Polyteloptera gen. n. Ulidiinae, apotropa sp. n. Brasilien, HENDEL Ent. Ztg. Wien 28 p. 263.

Polytocus gen. n. Dryomyzidae p. 144, spinicosta sp. n. p. 145, Auckland Islands, Lamb Subant. Isl. New Zealand 1. Prosactomilichia gen. n. p. 170, myrmecophila p. 171, brevirostria p. 172, spp. n., Java myrmecophilous, Meyere Tijdschr. Ent. 52.

Pselaphephila arctica sp. n. East Greenland, Nielsen København Medd. Grønl. Hefte 29 pp. 363-404.

Pseudotephritis vau Say pl. ii figs. 40 & 41 & p. 24, HENDEL Gen. ins. 96.

Psila nigromaculata sp. n. Admont, Strobl p. 284 Ent. Ztg. Wien 28.

Pterocalla angustipennis Bolivia p. 32, reticulata Peru p. 33, plumitarsis Bolivia p. 36, striata p. 37, oculata Peru p. 39, nitidiventris Paraguay p. 75, punctata p. 76, radiata Bolivia p. 77, spp. n., Hendel D. ent Zs. 1909; P. plumitarsis Hend. pl. ii figs. 37 & 38 & p. 19, Hendel Gen. ins. 96.

Pterocallinae; the genera with lists of the species, HENDEL Gen. ins. 96 50 pp. & 2 pls.

Pterocerina gen. n. Pterocallini p. 41, acutipennis p. 43, stylata p. 44, fenestrata p. 45, nigripennis p. 46, clarifascia p. 47, angulata p. 48, colorata p. 49, ferruginea p. 50, Peru & Bolivia, ochracea, bifasciata, Peru, p. 51, interrupta p. 52, trifasciata p. 53, furcuta p. 54, pieca p. 55, nigripes p. 56, Bolivia, spp. n., Hendel D. ent. Zs. 1909.—P. fenestrata Hond. pl. ii f. 44 & p. 24, Hendel Gen. ins. 96 vide etiam Sympaectria.

Rhayoletis intrudens sp. n. Ottawa, ALDRICH p. 70 Canad. Ent. 41.

Rhyparella gen. n. Pterocallini, decempunctata, p. 26, novempunctata p. 79, Bolivia, spp. n., Hendel D. ent. Zz. 1909; p. 35, Hendel Gen. ins. 96.

Sapromyza beraudi sp. n. Lebanon, Brzzi Broteria 8 p. 62.

Scatophaga nigripalpis sp. n. East Greenland, Nielsen København Medd. Grønl. Hefte 29 pp. 362-404.—S. stercoraria larval structure, habits, Shipley Proc. 200l. Soc. 1909 pp. 323-325 & pls. xlv & xlvi.

†Sciomyza florissantensis sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 11 pl. i fig. 2.

Sepedon violaceus sp. n. Hongkong, HENDEL p. 86 Ent. Ztg. Wien 28. Siopa gen. n. Ulidiinae, longicornis sp. n. Peru, Hendel Ent. Ztg. Wien 28 p. 253.

Siphlopteryx gen. n. near Anatalanta, p. 401, antarctica sp. n. p. 403 Crozet-Inseln, Enderlein D. Südpolar Exped. 10 H. 4.

Siphonella duinensis p. 288, alpigena p. 289, spp. n., Austria, Strobl. Ent. Ztg. Wien 28.—S. stroblii sp. n. Monistrol, Czerny Wien Verh. ZoolBot. Ges. 59 p. 288.

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Tetanocera amurensis sp. n. Amurgebiet, Hendel p. 86 Ent. Ztg. Wien 28.

Tetanops sintenisi Livland p. 97, corsicana Korsika p. 98, spp. n., Becker Ent. Ztg. Wien 28.

Thryptochaeta tristis nom. n. für punctum Meig., Czerny Wien Verh. ZoolBot. Ges. 59 p. 279.

Toxura longipalpis pl. figs. 24 & 25, variegata, figs. 22 & 23, p. 26, Hendel Gen. ins. 79.

Traginops clathrata sp. n. Peru, HENDEL p. 52 Ent. Ztg. Wien 28.

Trigonometopus monochacta sp. n. Formosa, Hendel p. 85 T.c.

Trypeta lernei sp. n. Europe, KIEFFER p. 6 Bull. Soc. Metz 26.

Xanthacrona phyllochaeta sp. n. Paraguay, Hendel D. ent. Zs. 1909 p. 74.

—X. bipustulata Wulp pl. i f. 21 & p. 16, Hendel Gen. ins. 96.

PUPIPARA.

African Hippoboscidae; Austen African blood-sucking flies pp. 162-178 pl. xiii.

Contribution à l'étude des Pupipares; MASSONNAT Ann. Univ. Lyon 128 p. 356 fig. Thèse fac. sci. Lyon. Variations des yeux composes chez les Pupipares; Massonnat Paris C. R. ass. franc. avanc. sci. 36 2° Partie pp. 610-614.

Hippobosca struthionis var. n. massaica, Speiser Kilimandjaro-Meru Exp. 10 3 p. 30.

Ornithoctona erythrocephala, New-STEAD p. 467 Ann. trop. Med. 3.

Ornithomyia lagopodis, Shipley pp. 321 & 322 & pls. xliii & xliv Proc. zool. Soc. 1909; on Syrnium aluco, Evans p. 65 Ent. Mag. 45.

Trichobius parasiticus, NEWSTEAD p. 468 Ann. trop. Med. 3.

APHANIPTERA.

Aphaniptera del Trentino; COBELLI Wien Verh. Z. B. Ges. 59 p. 6.

Bestimmungstabelle der Gattungen der Suctoria (Holländisch), OUDEMANS Ber. Ned. Ent. Ver. 2 pp. 321-326.

Aphaniptera; table of certain bloodsucking; Sergent Ins. piq. du sang Paris 1909 305 pp.

List of Suctoria in the Leyden Museum; OUDEMANS Leiden Notes Mus. 31 pp. 201-206.

Morphology; Oudemans pp. 277-282 & 306-314 Ber. Nederl. ent. Ver,

The segmented head, morphology, ontogeny and phylogeny of the Order, with new classification; OUDEMANS Nov. Zool. 16 pp. 133-158 pls. xi & xii.

Ueber den systematischen Wert der weiblichen Genitalorgane; OUDEMANS Zool. Anz. 34 pp. 730-736.

List of Aphaniptera of California, with hosts; MITZMAIN pp. 197-204 Canad. Ent. 41.

A parasite found on a flea; Fox Ent. News 20 p. 216 1 f.

Siphonaptera für 1903. [Jahresbericht]; WANDOLLECK Arch. Natg. 70 Bd 2 H 2 1904 [1909] pp. 961-964.

Amphipsylla gen. n. pro Typhlopsylla sibirica, schelkornikovi Transkaukasien auf Cricetulus phaeus spp. n., WAGNER Tiflis Mitt. Kaukas. Mus. 4 pp. 194-202.

Caenopsylla gen. n. noar Ceratophyllus, mira sp. n. Biskra pl. xi figs. 9 11 & 12, Rothschild p. 65 Nov. zool. 16.

Ceratophyllus flaveolus p. 57 pl. ix f. 6, phaulius f. 8, frontalis figs. 1-5, p. 58, turbidus f. 7 p. 59, spp. n., Austria, ROTHSCHILD T.c.—C. laeviceps Transkaukasien auf Gepbillus caucasicus sp. n., Wagner Tiflis Mitt. Kauk. Mus. 4 pp. 194-202.—C. rossi sp. n. S. Africa, Waterston p. 271 & pl. v Ent. Mag. 45.—C. multidentatus sp. n. California from nest of Neotoma, Fox Ent. News 20 p. 107 figs.—C. enoplus p. 53 pl. viii f. 6, ponerus p. 54 f. 5, spp. n., California, Rothschild Nov. Zool. 16.—C. graphis Nicaragua p. 62 pl. x figs. 3 & 4, lusius Buenos Aires p. 63 pl. x f. 6 & pl. xi f. 10, danubianus Roumania p. 65 pl. x f. 5, spp. n., Rothschild T.c.—C. niger sp. n. (undescribed) California, Fox Ent. News 20 p. 10.—C. gallinulae p. 325, 3 & 9 pl. xlvii, Shipley Proc. zool. Soc. 1909.

Ceratopsyllus fasciatus pique l'homme, GAUTHIER & RAYBAUD Paris C. R. soc. biol. 67 pp. 859-860.

Corypsylla gen. n undescribed, ornatus sp. n. undescribed, Fox Ent. News 20 p. 11.

Ctenoparia gen. n. near Macropsylla p. 66, inopinata sp. n. Chile p. 67 pl. x figs. 7 & 8, Rothschild Nov. Zool. 16.

Ctenophthalmus nivalis sp. n. Lautaret p. 68 pl. xi figs. 13 & 14, Rothschild R.c.

Ctenopsyllus fallax Engadine p. 185 & pl. i f. 2, sobrinus Basses Alpes p. 186 & f. 3, spp. n., Rothschild Ent. Mag. 45.—C. sibirica Wagn. to Palaeopsyllu Rothschild p. 68 Nov. Zool. 16.

Dermatophilus penetrans, Oviedos, account of, ROTHSCHILD p. 61 T.c.

Dolichopsyllus bluei sp. n. California from Putorius xanthogenys, Fox Ent. News 20 p. 195 fig.

Echidnophaga myrmecobii sp. n. Australia, Rothschild p. 57 Nov. Zool. 16.

Hectopsylla psittaci, in Holland, OUDEMANS Ber. Ned. Ent. Ver. 2 p. 333.

Ischnopsyllus scitulus sp. n. S. Africa, ROTHSCHILD p. 55 pl. viii figs. 1 & 2 Nov. Zool. 16.—I. schmitzi sp. n. Holl. Limburg, Oudrmans Tijdschr. Ent. 52 pp. 96-108 1 Taf.; Oudemans Zool. Anz. 34 pp. 736-741.

Loemopsylla vigetus sp. n. Sierra; Leone, Rothschild p. 53 pl. viii figs. 3 & 4 Nov. Zool. 16.

Nycteridopsylla; revised pp. 25-28 & pl. i, eusarca major subsp. n. p. 27, Rothschild Entomologist 42.—Nycteridopsylla; Merkmale, Oudemans Ber. Ned. Ent. Ver. 2 pp. 326-328.

Odontopsyllus wymani sp. n. California from Microtus californicus, Fox Ent. News 20 p. 241 pl. x.

Parapsyllus coxalis Chile pl. x figs. 1 & 2, australiacus (=tongicornis J. and R. 1908) W. Australia, spp. n., Rothischild Nov. Zool. 16 p. 62.

Pulex tripolitanus sp. n. Tripolis, Fulmek Zool. Jahrb. Syst. 28 p. 289. —P. cheopis auf Schiffsratten und Schiffsmäusen, Fromme Centralbl. Bakt. Abt. 1 52 Originale pp. 243-248 l Taf.

Pygiopsylla robinsoni, male, OUDE-MANS Leiden Notes Mus. 31 pp. 195-200.

Stephanocircus wolffhuegeli p. 8 & pl. i f. 1 Argentina, wolffsohni p. 9 & figs. 2 & 3 Chile, spp. n., Rothschild Ent. Mag. 45.—S. wolffsohni sp. n. Chile, Rothschild Revist. chilena 13 p. 181.

Typhlopsylla spectabilis and sylvatica to Ctenopsyllus, ROTHSCHILD p. 184 Ent. Mag. 45.—T. sibirica to Amphipsylla, WAGNER p. 201 Mitth. Kauk. Mus. Tiflis 4.

Xenopsylla Glink. = (Loemopsylla Rothsch.), cheopis R.=(pachyuromyidis G.), Rothschild p. 132 Nov. Zool. 16.
—Xenopsylla brasiliensis Bak. (ав Pulex)=(vigetus Rothsch.), Rothschild p. 332 T.c.

HEMIPTERA.

Hemipterous phylogeny, TORRE BUENO Canad. Ent. 41 pp. 310-312.

The hymenopterous parasites of Rhynchota, Morley Zoologist 1909 pp. 213 etc.

(Neue Rhynchoten (Vorläufige Diagnosen), Breddin Soc. Entomol. 20 1905 pp. 12 26-27.)

Heteroptera.

Verzeichnis der poläarktischen Hemipteren etc. Bd. I, Lief III., OSHANIN, Ann. Mus. zool. 14 Beilage pp. 587-1087.

PENTATOMIDAE.

Catalogue of Hemiptera, 1, lists of food-plants, nomenclature, etc., not recorded in detail below, except for genn. n. & spp. n., Kirkaldy pp. xl+392.—For list of n. spp. & varr. proposed, see his p. 383.

Alcimocoris marapokensis sp. n. Borneo, Distant p. 386 pl. x f. 3 Tr. ent. Soc. London 1909.

Amirantea gen. n. near Gadarscama p. 30, gardineri sp. n. Seychelles p. 31 pl. v f. i, DISTANT Tr. Linn. Soc. 13.

Amissus testaceus sp. n. Malacca p. 388 & pl. x f. 5, DISTANT Tr. ent. Soc. London 1909.

Antestia plautioides sp. n. Ceylon, Breddin p. 278 Ann. Soc. ent. Belgique 53.—A. anchorago, early stages, Kershaw & Kirkaldy J. Bombay Soc. 19 p. 177 pl. B.

Apines grisea pl. ii fig. 5 sp. n. Palawan, BANKS Philippine J. Sci. 4 p. 562.

Arvelius diluticornis Venezuela, latus Amazonas, acutispinus Peru, porrectispinus Brit. Guiana, crassispinus patria inc., spp. n., Breddin SitzBer. Ges. natf. Freunde 1909 pp. 154-161.

Aspongopus obscurus var. n. margineguttatus, Breddin p. 282 Ann. Soct ent. Belgique 53.—A. alternatus pl. i. f. 3 & p. 74, DISTANT Tr. zool. Soc. 19.

Auriga nom. n. for Arma Stål, Kir-KALDY Cat. Hem. p. 15.

Awemba typica pl. ii f. 6 & p. 72, DISTANT Tr. zool. Soc. 19.

Boerias subg. n. of Tropicorypha, KIRKALDY Cat. Hem. p. 365.

Brasiliicola subg. n. of Serdia, KIRKALDY p. 140 T.c.

Brochymena punctata sp. n. N. America, VAN DUZEE p. 369 Canad. Ent. 41.

Carbula bicolor pl. ii f. 4 & p. 70, fuscata f. 8 & p. 71, DISTANT Tr. zool. Soc. 19.

Caridillus gen. n. near Aëptus p. 330, curius sp. n. Victoria p. 331, Векскотн D. ent. Zs. 1909.

Catacanthus horni sp. n. Ceylon, Breddin p. 276 Ann. Soc. ent. Belgique 53.

Calaglypsus subg. n. Glypsus, Kir-KALDY Cat. Hem. p. 27.

Caura leggei pl. ii f. 1 & p. 70, DISTANT Tr. zool. Soc. 19.

Chalcopis subg. n. of Metonymia, KIRKALDY Cat. Hem. p. 244.

Choerocydnus coleopteroides sp. n. Australien, BERGROTH p. 330 Ent. Ztg. Wien 28.

Coptosoma sabulicolor p. 250, punctatissimum p. 251, subeburneum p. 252, arciferum p. 255, spp. n., Ceylon, cardoni var. n. depauperatum p. 257, BREDDIN Ann. Soc. ent. Belgique 53.

Corimelana gilletti Van. D. synonym of Thyreocoris lateralis Fabr., VAN Duzee Ent. News 20 p. 232.

Cosmocoris distanti p. 557, pulcherrimus p. 558 pl. i fig. 1, spp. n. Palawan, BANKS Philippine J. Sci. 4.

†Cydnopsis handlirschi sp. n. Colorado Miocene, Cockerell p. 170 Entomologist 42.

Dalpada armaticeps p. 265, deplanata p. 266, spp. n., Cevlon, Breddin Ann. Soc. ent. Belgique 53.

Dalames nom. n. = Cinxia Stål, Horváth Ann. Mus. Hung. 7 p. 631.

Dendrites gen. n. kershawi sp. n. China, Kirkaldy Cat. Hem. p. 194.

Discocephalessa subg. n. of Platycarenus, KIRKALDY T.c. p. 215.

Dryadocoris nom. n. Holcostethus Stål, KIRKALDY p. 47 T.c.

Embolosterna unicolorus sp. n. Borneo, DISTANT p. 388 & pl. x f. 4, London Tr. ent. Soc. 1909.

Euronotias subg. n. of Poecilometis KIRKALDY Cat. Hem. p. 189.

Eurydema rotundicollis var. n. berthae. ROYER p. 198 Bull. Soc. ent. France 1909.

Eusarcoris taprobanensis sp. n. Ceylon, Breddin p. 275 Ann. Soc. ent. Belgique

Geotomus subrotundus sp. n. Ceylon, Breddin p. 264 Ann. Soc. ent. Belgique

Graphosoma; cas de mutation, BERGEVIN Paris Bul. soc. ent. 1909 pp. 43-47.—G. semipunctatum var. n. furciferum, ROYER p. 210 Bull. Soc. ent. France 1909.—G. creticum sp. n. Europe, semipunctatum varr. n. anceps and subaequale, Horváth Ann. Mus. Hung. 7 pp. 143-150 6 figs.

Hawaiicola subg. n. vide Oechalia

Hermolaus horni p. 271, latiusculus p. 272, spp. n., Ceylon, Breddin Ann. Soc. ent. Belgique 53.

Kaffraria nom. n. for Gonopsis Stål, Kirkaldy Cat. Hem. p. 248.

Lactistes mediator sp. n. Ceylon, Breddin p. 260 Ann. Soc. ent. Belgique

Leliga subg. n. of Gellia, KIRKALDY Cat. Hem. p. 250.

Leprosomatessa nom. n. for Leprosoma Baer., KIRKALDY Cat. Hem. p.

Liotropis contaminatus on Opuntia fulgida, OSBORN Ent. News 20 p. 177.

Loxa florida sp. n. Florida, VAN DUZEE Buffalo Bull. Soc. 9 pp. 156-157 fig.

Mahea gen. n. Acanthosomatinae, sexualis sp. n. Seychelles pl. iv figs. 4 & 7, DISTANT Tr. Linn. Soc. 13 p. 32.

Menida ceylanica sp. n. Ceylon, histrio var. n. dilutior, Breddin p. 280 Ann. Soc. ent. Belgique 53.

Metonymia nom. n. for Dalsira Stål, KIRKALDY Cat. Hem. p. 244.

Mormoschema gen. n. neir Mormoidea p. 269, for Tolumnia immaculata Dist .. Breddin Ann. Soc. ent. Belgique 53.

Murgantia histrionica, biological notes, Smith J. Econ. Ent. 2 pp. 108-

Mycterizon gen. n. for Dunnius bellus Dist., Breddin p. 279 Ann. Soc. ent. Belgique 53.

Ochlerus communis p. 616 Brasilia, signorcti p. 617 Cayenne, bistillatus p. 618, profanus p. 619, Peru, rusticus p. 620 Brasilia, cotylophorus p. 621 Peru, handlirschi p. 622 Yukatan, dentijugis p. 623 Colombia, bergrothi p. 625 Brasilia, tenuicornis p. 626 Venezuela, notatulus p. 627 Brasilia indicatus p. 627 Brasilia, incisulus p. 628 Venezuela, stylutatus p. 629 Peru, spp. n., Breddin SitzBer. Ges. natf. Fr. 1909.

Oechalia (Hawaiicola subgen. n.) kaonohi sp. n. Hawaii, KIRKALDY Proc. Hawaii Ent. Soc. 2 p. 83 pl. ii f. 1.

Orsilochides subg. n. of Chelysoma, KIRKALDY Cat. Hem. p. 366.

Neodine gen. n. for Cataulax, KIR-KALDY Cat. Hem. p. 218.

Paraegaleus subg. n. Aegaleus, KIB-KALDY Cat. Hem. p. 134.

Paraschistus subg. n. Euschistus, KIRKALDY p. 63 T.o.

Pentatoma lelliformis sp. n. Yunnan, KIRKALDY p. 368 T.c.

Piezosternias subg. n. of Piezosternum, KIRKALDY p. 348 T.c.

Platistus gen. n. for Aelia spiniceps, KIRKALDY p. 238 T.c.

Plautia minor sp. n. Ceylon, BREDDIN p. 277 Ann. Soc. ent. Belgique 53.

Podisus H.-S., its composition, list, VAN DUZEE pp. 370 & 371 Canad. Ent. 41.

Poecilocoris croesus sp. n. Nias islds. p. 385 & pl. x f. l, DISTANT Tr. ent. Soc. London 1909.

Rhynchocoris bicolor sp. n. Borneo p. 387 & pl. x f. 3, DISTANT Tr. ent. Soc. London 1909.

Rio subg. n. Nezara, KIRKALDY Cat. Hem. p. 116.

Sanganus gen. n. near Oxylobus, jenseni sp. n. Borneo pl. x f. 6, DISTANT p. 389 Tr. ent Soc. London 1909.

Scutellera brevirostris sp. n. Ceylon, Breddin p. 258 Ann. Soc. ent. Belgique 53.

Sepina seychellensis sp. n. Seychelles p. 31 pl. iv f. 3, DISTANT Tr. Linn. Soc. 13.

Spudaeus aculeatus sp. n. Queensland, Bergroth p. 184 Ann. Soc. ent. Belgique 53.

Thyreocoris montanus sp. n. U. S., VAN DUZEE Ent. News 20 p. 231.— T. pulicarius American forms, VAN DUZEE p. 369 Canad. Ent. 41.

Tingania gen. n. near Anchises p. 328, dimorpha sp. n. Tasmania p. 329, Векскотн D. ent. Zs. 1909.

Tolumnia horni sp. n. Ceylon, Breddin p. 269 Ann. Soc. ent. Belgique 53.

Xosoplax subg. n. of Deroplax, Kirkaldy Cat. Hem. p. 281.

Coreidae, Lygaeidae & Pyrrhocoridae.

Lygaeidae, usage of family name, BERGROTH p. 405 Canad. Ent. 41.

The names proposed to supplant Lygaeidae, DISTANT p. 317 Ann. Nat. Hist. 3.

The name Lygaeidae; equestris Fabr. is the type of Lygaeus, BANKS p. 418 Canad. Ent. 41.

Abanus gen. n. near Lethaeus, coloratus sp. n. Bengal, DISTANT p. 493 Ann. Nat. Hist. 3.

Abulfeda gen. n. near Euscopus p. 495, punctatus sp. n. Ceylon p. 496, DISTANT T.c.

Acanthocephala nasula = (femorata Fabr.), Kirkaldy Canad. Ent. 41 p. 30.

Acantholybas kirkaldyi sp. n. Tasmania, BERGROTH p. 185 Ann. Soc. ent. Belgique 53.

Acanthomia insignis pl. ii f. 7 & p. 77, DISTANT Tr. zool. Soc. 19.

Adauctus gen. n. near Diniella, cupreus sp. n. Bengal, DISTANT p. 492 Ann. Nat. Hist. 3.

Aethalotus indicatus sp. n. Tenasserim, DISTANT p. 318 T.c.

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Agunga fulgida sp. n. Calcutta, DISTANT p. 334 T.c.

Antilochus amorosus sp. n. Ceylon, Breddin p. 296 Ann. Soc. ent. Belgique 53.

Aphanus dudgeoni, ornatulus, p. 336, bengalensis p. 337, suratensis p. 338, spp. n., India, DISTANT Ann. Nat. Hist. 3.—A. persicellus n. n. for Pachymerus horridus Jak., KIRKALDY p. 388 Canad. Ent. 41.

Arenocoris = (Pseudophloeus =: Spathocera), KIRKALDY p. 30 Canad., Ent. 41.

Armatillus Dist. is Pyrrhochoridae: not Pentatomidae, DISTANT p. 345 Ann. Nat. Hist.

Artheneis Spin. = (Nysius Dall.), helvetica H. S. = (lineata Costa), KIRKALDY p. 31 Canad. Ent. 41.

Aschistocoris bombaeus sp. n. Bombay, BERGROTH p. 185 Ann. Soc. ent. Belgique 53.

Aspilocoryphus? modestus sp. n. Bombay, DISTANT p. 320 Ann. Nat. Hist. 3.

Atkinsonianus gen. n. near Abdolominus p. 343, reticulatus sp. n. Sikkim. p. 344, DISTANT T.c.

Baclozygum gen. n. near Thaumasto-coris p. 332, depressum sp. n. Tasmania p. 333, Bergroth D. ent. Zs. 1909.

Belonochilus koreshanus sp. n. Florida, VAN DUZEE Buffalo Bull. Soc. 9 pp. 165-166.

Boudicca nom. n. for Pseudophloeusauett., Kirkaldy p. 30 Canad. Ent. 41.

Cenaeus semiflavus pl. ii f. 10 & p., 79, DISTANT Tr. zool. Soc. 19.

Chauliops nigrescens sp. n. India, DISTANT p. 328 Ann. Nat. Hist. 3.—C. bisontula pl. i fig. 4a, sp. n. Palawan, BANKS Philippine J. Sci. 4 p. 573.

Clerada bipunctata, setulosa, Nova Guinea, ferruginea, laticollis, Australia, spp. n., Horváth Ann. Mus. Hung. 7 pp. 622-625.

Cletus hoplomachus sp. n. Ceylon, BREDDIN p. 291 Ann. Soc. ent. Belgique 53.—C. signatus Walk. = (bipunctata Westw.), bipunctatus H. S. = (pugnator = armatulus Br.), KIRKALDY p. 30 Canad. Ent. 41.

Consivius gen. n. near Arocatus p. 320, collinus sp. n. Simla p. 321, DISTANT Ann. Nat. Hist. 3.

Coriscus stalianus n. n. for Alydus dentipes Stal, Kirkaldy p. 30 Canad. Ent. 41.

Corizus unicolor Crimea, distinct species (Russ.), KIRIČENKO Rev. russ. ent. 8 p. 236.—C. lateralis, life history, Hambleton Ann. Ent. Soc. Amer. 2 p. 272 pl. xxix.

Cymus bellus sp. n. Florida, VAN DUZEE Buffalo Bull. Soc. 9 p. 167 fig. C. breviceps = (Cymodema exiguum Horv.), VAN DUZEE p. 372 Canad. Ent. 41.

Dalader sumatrensis sp. n. Sumatra, Schmidt Stettiner ent. Ztg 70 p. 368.

Dermatinus erebus sp. n. India, DISTANT p. 360 Ann. Soc. ent. Belgique 53.

Diniella bengalensis sp. n. India, DISTANT p. 334 Ann. Nat. Hist. 3.

Dinomachus indicus sp. n. India, DISTANT p. 491 T.c.

Dysdercus micropygus p. 299, luteolus, Ceylon, megalopygus Borneo, p. 300, spp. n., Breddin Ann. Soc. ent. Belgique 53.—D. ortus sp. n. Seychelles, DISTANT p. 36 pl. iv f. 13 Tr. Linn. Soc. 13.—D. ellanorae sp. n. Palawan, Banks Philippine J. Sci. 4 p. 578.—D. pretiosus pl. ii f. 11 & p. 79, DISTANT Tr. zool. Soc. 19.

Epibomius gen. n. near Sadoletus p. 328, pusa sp. n. Bengal p. 329, DISTANT Ann. Nat. Hist. 3.

Eremocoris naini sp. n. India, DISTANT p. 494 T.c.

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Eucosmetus mimicus sp. n. Pegu, DISTANT p. 332 T.c.

Euhemerus gen. n. near Dinomachus, latus sp. n. Bombay, DISTANT p. 331 T.c.

Euscopus albatus sp. n. Bombay, DISTANT p. 496 T.c.—E. indecorus var. n. stigmaticus, Breddin p. 297 Ann. Soc. ent. Belgique 53.

Euthetus pulcherrimus sp. n. Bombay, Bergroth p. 186 Ann. Soc. ent. Belgique 53. Geocoris dubreuilli sp. n. India p. 128, thoracicus var. n. wickhami p. 129, Montandon Ann. Soc. ent. Belgique 53.

Gonsalvus spinosus sp. n. Calcutta, DISTANT p. 344 Ann. Nat. Hist. 3.

Heterogaster semicolon Fieb. = (affinis H.-S.), KIRKALDY p. 31 Canad. Ent. 41

Holopterna wollastoni pl. ii f. 14 & p. 74, affinis f. 15 & p. 75, DISTANT Tr. zool. Soc. 19.

Hypselopus intermedius sp. n. Seychelles, DISTANT p. 34 Tr. Linn. Soc. 13.

Indra glebula sp. n. Ceylon, Breddin p. 299 Ann. Soc. ent. Belgique 53.

Ischnodemus erebus, atromaculatus, spp. n., Bombay, Distant p. 326 Ann. Nat. Hist. 3.—I. the North American, Van Duzee pp. 374 & 375 Canad. Ent. 41.—I. rufipes p. 167, badius p. 168, lobatus p. 169, spp. n., Florida, Van Duzee Bull. Soc. Buffalo 9.—I. slossoni Florida p. 233, conicus Texas p. 234, spp. n., Van Duzee Ent. News 20.

†Jadera? interita sp. n. Miocene Colorado, Cockerell p. 171 Entomologist 42.

Leptocorisa lepida sp. n. Ceylon, Breddin p. 293 Ann. Soc. ent. Belgique 53.

Leptoglossus ashmeadi sp. n. Florida, HEIDEMANN Bull. Soc. Buffalo 9 p. 237 fig.

Lua gen. n. near Rhaptus p. 342, tartarea sp. n. Ceylon and Minikoi p. 343, DISTANT Ann. Nat. Hist. 3.

Lygaeus pandurus var. n. tetricus Iles Canaries, Horváth Ann. Mus. Hung. 7 p. 291.—Lygaeus simla, εους, spp. n., India, Distant p. 319 Ann. Nat. Hist. 3.—L. ugandicus n. n. for Holopterna affinis Dist., Kirkaldy p. 388 Canad. Ent. 41.

Macropes raja, singularis, p. 323, uniformis p. 324, privus, thoracicus, p. 325, spp. n., India and Ceylon, DISTANT Ann. Nat. Hist. 3.

Manatanus gen. n. near Lua p. 494, montanus sp. n. Simla p. 495, DISTANT T.c. Maramaldus gen. n. near Eucosmetus, admistus sp. n. India, DISTANT p. 333 T.c.

Merocoris; synonymy, KIRKALDY p. 30 Canad. Ent. 41.

Mygdonia montana pl. ii f. 16 & p. 76, DISTANT Tr. zool. Soc. 19.

Naudarensia manipurensis sp. n Manipur, DISTANT p. 339 Ann. Nat. Hist. 3.

Neolethaeus gen. n. near Lethaeus, typicus sp. n. Burma, Distant p. 340 T.c.

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Oncopellus spectabilis sp. n. Jamaica, Van Duzee Ent. News 20 p. 233.— O. bergianus n. n. for stalii Berg, Kirkaldy p. 31 Canad. Ent. 41.

Oriterus aruacanus n. n. for varicornis Westw., Kirkaldy p. 388 T.c.

Orthaea neotropicalis n. n. for serripes Fabr., Kirkaldy p. 31 T.c.

Oxycarenus pallens = (collaris M. & R.), Kirkaldy p. 31 T.c.

Pachy grontha bicornuta pl. i fig. 5a, sp. n. Palawan, BANKS Philippine J. Sci. 4 p. 574.

Pamera emersoni sp. n. Ceylon, DISTANT p. 491 Ann. Nat. Hist. 3.

Pamerana gen. n. near Pamera p. 331, cuneata sp. n. Calcutta p. 332, DISTANT T.c.

Pendulinus spinulicollis sp. n. Ceylon, Breddin p. 287 Ann. Soc. ent. Belgique 53.

Perigenes costalis sp. n. Ohio, VAN DUZEE p. 373 Canad. Ent. 41.

Petillia ornaticornis sp. n. Ceylon, Breddin p. 284 Ann. Soc. ent. Belgique 53.—P. picturata sp. n. Nias isld., DISTANT p. 390 Tr. ent. Soc. 1909.

(n-11091 j)

Phyllomorpha; biology, Reuter pp. 264-268 Bull. Soc. ent. France 1909: Mœurs et les métamorphosos; Jeannel Paris Bull. soc. ent. 1909 pp. 282-286: nouvelles stations, Lambertie Bordeaux Actés soc. linn. 72 p. cxlvii.

Physopelia varians sp. n. Ceylon (=limbata Br. nec. St.), Breddin p. 295 Ann. Soc. ent. Belgique 53.

Perkimerus nicobarensis sp. n. Nicobar islds., DISTANT p. 322 Ann. Nat. Hist. 3.

Plectropoda bicolor Hagl. = (Holopterna ellioti Dist.) p. 75 & pl. ii f. 13, DISTANT Tr. zool. Soc. 19.

Psilolomia gen. n. near Hoplolomia p. 292, brevitibialis sp. n. Ceylon p. 293, Breddin Ann. Soc. ent. Belgique 53.

Ptochiomera antennata sp. n. Florida and Arizona, VAN DUZEE Bull. Soc. Buffalo 9 p. 172.

Pygaeus pallidus = (Cligenes minutus Bergr.), VAN DUZEE p. 374 Canad. Ent. 41.

Pyrrhocoris = (Astemma Lep. & S.), Kirkaldy p. 31 Canad. Ent. 41.— P. apterus, kannibalische Gelüste, Meissner Soc. entomol. Steglitz 24 p. 140.

Rhyparochromus maculipennis Curt. = (praetextatus H.-S.), KIRKALDY p. 31 Canad. Ent. 41.

Riptortus nipponensis n. n. for 11-davatus Thunb., KIRKALDY p. 30 T.c.

Sadoletus pallescens sp. n. Calcutta, DISTANT p. 329 Ann. Nat. Hist. 3.

Scolopocerus to Centroscelinae, VAN DUZEE p. 372 Canad. Ent. 41.

Scopiastes ruficollis pl. ii f. 2 sp. n. Palawan, BANKS Philippine J. Sci. 4 p. 571.

Sephina grayi sp. n. Florida, VAN DUZEE Ent. News 20 p. 232.

Stalagmostethus, complex synonymy, Kirkaldy p. 31 Canad. Ent. 41.

Stenophthalmicus pictus = fajoumensis Costa 1878, Montandon Napoli Annuario Museo zool. 2 p. 1.

Teutates gen. n. near Arrianus, sculpturatus sp. n. Calcutta, DISTANT p. 335 Ann. Nat. Hist. 3.

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Tropidothorax neocaledonicus sp. n. New Caledonia, Векскотн р. 189 Ann. Soc. ent. Belgique 53.

Tyrrheneis nom. n. for Artheneis auctt., Kirkaldy p. 31 Canad. Ent. 41.

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Urentius olivaceus Ceylon, sentis Bombay, r 115, euonymus Ceylon p. 116, spp. n., DISTANT T.c.

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Capyella lobulata sp. n. Australia, BERGROTH p. 188 Ann. Soc. ent. Belgique 53.

Jalysus perclavatus sp. n. Florida, Van Duzee Buffalo Bull. Soc. 9 pp. 163-164.

Metacanthus bihamatus sp. n. Ceylon, DISTANT p. 360 Ann. Soc. ent. Belgique 53.

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Carcinochelis ornatus sp. n. Borneo p. 391 & pl. x f. 9, DISTANT Tr. ent. Soc. London 1909.

Glossopelta lineolata sp. n. Assam, DISTANT p. 496 Ann. Nat. Hist. 3.

ARADIDAE.

Acantharadus gen. n. p. 579 giganteus sp. n. pl. ii f. 8 a p. 580 Palawan, BANKS Philippine J. Sci. 4.

Aneurus tuberculatus, France, Mjöberg Entomol. Tidskr. 30 p. 266; Mjöberg Ark. Zool. 5 No. 11 pp. 1-

Aradus madagascariensis sp. n. Madagascar copal, Bervoets p. 280 Bull. soc. ent. France 1909.—A. dignatus, antemissus, spp. n., Bengal, Distant p. 362 Ann. Soc. ent. Belgique 53.—A. borealis sp. n. United States, Heidemann Proc. Ent. Soc. Washington 11 p. 190 fig. 4.—A. montivagus n. n. for planus Fabr. 1803, Kirkaldy p. 30 Canad. Ent. 41.

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Neuroctenus weberi p. 581, antennatus p. 582, Palawan spp. n., Banks Philippine J. Sci. 4.

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Cylindrostethus vittipes sp. n. Malacca, KIRKALDY p. 389 Canad. Ent. 41.

Halobates orientalis sec. Kirkaldy, DISTANT p. 95 Canad. Ent. 41.

Microvelia albomaculata p. 499, kumaonensis, diluta, p. 500, annandalei p. 501, spp. n., India, DISTANT Ann. Nat. Hist. 3.

Ptilomera luzonica sp. n. Philippines, Kirkaldy p. 89 Canad. Ent. 41.

Velia osborniana n. n. for brunnea Osb., Kirkaldy p. 31 T.c.

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Hebrus bengalensis sp. n. India, DISTANT p. 497 Ann. Nat. Hist. 3.

Merragata pallescens sp. n. India, DISTANT p. 498 T.c.

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Monographia Nabidarum orbis terrestris, pars prior; Reuter & Poppius Acta Soc. sci. fenn. 37 No. 2.

Acanthaspis (Plynus) limbatus p. 408, A. tanganyikae, reuteri, altered to reuterianus p. 422 t.c., p. 409, varicolor Africa trop., berensbergi Natal, p. 410, spp. n., Schouteden Ann. Soc. ent. Belgique 53.—A. distanti sp. n. Palawan, BANKS Philippine J. Sci. 4 p. 584.

Allaeorhynchus collaris sp. n. India, DISTANT p. 374 Ann. Soc. ent. Belgique 53.—A. grandis New Guinea p. 35 fig. 6, fasciaticollis Madagascar p. 39, plebejus, nobilis, p. 43, divergens p. 45, Africa, spp. n., REUTER & POPPIUS Acta Soc. Sci. Fenn. 37.

Apiomerus incisus H.-S. = (geniculatus Er.), KIRKALDY p. 31 Canad. Ent. 41.

Apocaucus gen. n. p. 506 near Tribelocephala, laneus sp. n. Himalaya p. 507, DISTANT Ann. Nat. Hist. 3. Aristonabis gen. n. p. 48, pulcher sp. n. Mentawei p. 49 fig. 7, REUTER & POPPIUS Acta Soc. Sci. Fenn. 37.

Bagauda decorus sp. n. Ceylon, Breddin p. 301 Ann. Soc. ent. Belgique 53.

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Cleptria? usambarica p. 413, C. neavei Congo p. 414, spp. n., Schouteden Ann. Soc. ent. Belgique 53.

Coranopsis dispar sp. n. Erythrea, Schouteden p. 415 T.c.

Coranus neotropicalis n. n. for bimaculatus Fabr., Kirkaldy p. 31 Canad. Ent. 41.

Dmesa choctawana n. n. for brevipennis Dohrn, Kirkaldy p. 388 Canad. Ent. 41.

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CAPSIDAE.

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Synopsis der deutschen Blindwanzen (Hemiptera heteroptera, Fam. Capsidae). Tl XII. (Div. Cyllocoraria), HÜEBER Stuttgart Jahreshefte Ver. 65 pp. 171-240.

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Sixeonotus luteiceps sp. n. Texas, REUTER Acta Soc. Sc. Fenn. 36 No. 2 p. 4.—S. moestus, morio, rubellus, p. 158, strigatifrons p. 159, spp. n. Mexiko, REUTER Wien Ann. Hofmus. 22. Stechus gen. n. p. 449, libertus sp. n. Ceylon p. 450, DISTANT Ann. Nat. Hist. 4.

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Teratocoris caricis n. n. for longicornis Uhl., KIRKALDY p. 390 Canad. Ent. 41.

Thaumaturgus gen. n. p. 518, typicus sp. n. India p. 519, DISTANT Ann. Nat. Hist. 4.

Thermus gen. n. p. 514, adumbratus sp. n. Ceylon p. 515, DISTANT T.c.

Tichorhinus pelagicus n. n. for O. mutabilis White, KIRKALDY p. 32 Canad. Ent. 41.

Trigonotylus confusus sp. n. Maryland, REUTER Helsingfors Acta Soc. Sc. Fenn. 36 p. 6.

Tropidosteptes plagifer, commissuralis, Canada spp. n., Reuter Acta Soc. Sc., Fenn. 36 p. 51.

Tuponia longipennis sp. n. Ténériffe, Horváth Ann. Mus. Hung. 7 p. 294.

Zalmunna gen. n. p. 442, dux sp. n. Ceylon p. 443, DISTANT Ann. Nat. Hist. 4.

Zaratus gen. n. near Zosippus, repandus sp. n. Nilgiri hills, DISTANT p. 59 Entomologist 42.

Zonodorus gen. n. p. 522, gubernator sp. n. Ceylon p. 523, DISTANT Ann. Nat. Hist. 4.

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Salda inconstans India, fletcheré Ceylon, p. 375, pusana India p. 376, spp. n., DISTANT Ann. Soc. ent. Belgique 53.

Valleriola cicindeloides sp. n. Bengal, DISTANT p. 40 Ann. Nat. Hist. 3.

HYDROCORISAE.

Pulsatile organ in legs of Ranatra and Notonecta, Brocher pp. 33-41 Ann. Biol. lacustre 4.

Ambrysus horvathi Peru p. 323, colombicus Ibagua p. 324, nitidulus Mexico p. 326, ochraceus Bolivia, peruvianus Peru, p. 329, spp. n. Montandon Bull. Soc. Bucarest 17.

Amorgius niloticus Ungarn, Gorka Termt. Közl. 41 p. 454.

Buenoa spp., notes on distribution and taxonomy pp. 74-77, Bueno J. New York Ent. Soc. 17.

Cercotmetus asiaticus var. n. longicollis Java, brevipes sp. n. Sumatra, Montandon Ann. Mus. Hung. 7 pp. 63-65.

Hydrocyrius; Notes syst., MONTAN-DON pp. 68-70 T.c.

Laccotrephes japonensis, pfeifferiae notes diverses, Montandon pp. 61-63 T.c.

Nepa cinerea, Metamorphose der Respirationsorgane, Dogs Greifswald Mitt. natw. Ver. 40 pp. 1-55 2 Taf.

Notonecta; variabilité, DELCOURT Bul. sci. France-Belgique 43 pp. 373– 461.—Natural history, Brocher Ann. Biol. lacustre 4 pp. 9–32.

Ranatra longipes rapax, varipes, notes, Montandon Ann. Mus. Hung. 7 pp. 66-68.—R. fuscoannulata pl. ii f. 9 & p. 80, DISTANT Tr. zool. Soc. 19.

Suturgana gen. n. p. 4-9 near Aphelocheirus, plumipes russ. Turkestan p. 9 sp. n., Ošanin St. Peterburg Ann. mus. zool. 14.

Homoptera.

Homoptera, Jacobi in Die Fauna Südwest-Australiens, hrsg. v. W. Michaelsen u. R. Hartmeyer. Lfg. 20. Jena 1909 pp. 37-345.

Homologies of the wing veins of the Aphididae, Psyllidae, Aleurodidae, and Coccidae, with bibliography; PATCH Ann. Ent. Soc. Amer. 2 pp. 101-129 pls. xvi-xxi.

Remarques en passant et description d'une espèce d'homoptère; Lambertie Bordeaux Actes soc. linn. 72 pp. xcvi-xcvii.

CICADIDAE.

Abricta euronotiana n. n. for aurata Walk., KIRKALDY p. 391 Canad. Ent. 41.

Ariasa quaerenda n. n. for torrida W., brasilianorum n. n. for marginata Ol. Kirkaldy l.c.

Baeturia moluccana n. n. for stigma Walk., subnotata Walk. = (innotabilis W.), KIRKALDY p. 390 T.c.

Balinta kershawi sp. n. Macao, KIRKALDY p. 180 Ann. Soc. ent. Belgique 53.

Calopsaltria hottentota n. n. for elongata St., Kirkaldy p. 390 Canad. Ent. 41.

Cicada; Bau der Speicheldrüsen, GADD Rev. russ. ent. 9 pp. 138-143.—
C. atrovirens Guér. = (bimaculata Ol. = viridis F.), hieroglyphicalis n. n. for hieroglyphica G. and F., atrofasciata n. n. for sinensis Dist., queenslandica n. n. for graminea D., azteca n. n. for pallida D., brasiliensis n. n. for obtusa Uhl., KIRKALDY p. 391 Canad. Ent. 41.

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Cryptotympana niasana sp. n. Nias island, Distant p. 392 Tr. ent. Soc. London 1909.

Diemeniana tasmanı n. n. for coleoptrata Walk., Kirkaldy p. 390 I.c.

Fidicina semilata W. = (viridis Ol.), cayennensis n. n. for bicolor Ol., Kirksldy p. 391 T.c.

Herrera ancilla St. = (marginella W.), Kirkaldy p. 391 T.c.

Lembeja sanyuinolenta Celebes, robusta, p. 394, crassa p. 395 & pl. x f. 7, New Guinea, spp. n., DISTANT Tr. ent. Soc. London 1909.

Mapondera capicola n. n. for pulchella St., hottentota n. n. for abdominalis St., Kirkaldy p. 390 Canad. Ent. 41.

Prasia tincta sp. n. Celebes, DISTANT p. 393 Tr. ent. Soc. London 1909.

Platypleura graueri sp. n. Ost-Afrika, MELICHAR Čas. České Spol. Entomolog. 1908 p. 58-60.

Pomponia linearis W. = (fusca Ol.), buddha n. n. for adusta W., KIRKALDY p. 391 Canad. Ent. 41. Psaltoda plaga W. = (argentata Germ.), Kirkeldy l.c.

Quintilia umbrosa St. = (diaphana Germ.), Kirkaldy p. 390 T.c.

Rhinopsalta gen. n. sicardi sp. n. Ost-Afrika, Melichar Čas. České Spol. Entomolog. 1908 p. 58-60.

Rihana atra Philippines p. 207, seminiger Iudia p. 208, spp. n., DISTANT Entomologist 42.

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Afakia nom. n. for Arfaka Dist., Kirkaldy p. 391 Canad. Ent. 41.

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Apateson Fowl. to Achilinae, DISTANT p. 388 T.c.

Aphypia gen. n. Achilidae longipennis sp. n. Ost-afrika, MELICHAR Čas. České Spol. Entomolog. 1908 pp. 1-15.

Armacia basigera Walk. = (consobrina Walk.), latipennis Walk. = (emarginata Walk.), DISTANT p. 331 Ann. Nat. Hist. 4.

Biolleyana gen. n. type Nogodina pictifrons Stål, Distant p. 335 T.c.

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Cerogenes nom. n. = Atalanta Stål, Horváth Ann. Mus. Hung. 7 p. 631-632.

Chimetopon gen. n. near Tonga, camerunensis sp. n. Kamerun, Schmidt Stettiner ent. Ztg 71 p. 185.

Cixius dorsivitatus nom. n. for dorsalis Van D., Van Duzee Bull. Soc. Buffalo 9 p. 188.

Cornelia usambarae sp. n., Melichar Čas. České Spol. Entomolog. 1908 p. 1-15.

Cyrpoptus reineckei sp. n. Florida, VAN DUZEE Bul. Soc. Buffalo 9 pp. 185-186 1 fig.

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†Eofulgorella gen. n., bradburgi sp. n. Colorado Miocene, Cockerell p. 172 Entomologist 42.

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Euhiracia gen. n. conspersa sp. n. Ost-Afrika, Melichar Čas. České Spol. Entomolog. 1908 p. 1-15.

Euricania jo Boisd. = (oculata Guer.), Kirkaldy p. 32 Canad. Ent. 41.

Fortunia gen. n. for Issus byrrhoides Walk., DISTANT p. 83 Ann. Nat. Hist. Gaetulia; characters, DISTANT p. 337 T.c.

Galapagosana gen. n. for Issus rostrifer Butl., DISTANT p. 73 T.c.

Galbaloeca Walk. to Issinae, DISTANT p. 338 T.c.

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Hilda bengalensis sp. n. Pusa, DISTANT p. 41 Ann. Nat. Hist. 3.

Homalopsis curvata sp. n. Ost-Afrika, Melichar Čas České Spol. Entomolog. 1908 p. 1-15.

Hyalesthes angustulus, flavipennis, spp. n., Ténériffe, Horváth Ann. Mus. Hung. 7 pp. 299-300.

Hysteropterum melichari Eritraea, riobambae Ecuador, spp. n., SCHMIDT Stettiner ent. Ztg 71 pp. 159-161.— Spp. of Walker referred to Lollius; DISTANT p. 74 Ann. Nat. Hist. 4.— H. mexicanum n. n. for angulare Fowl., KIRKALDY p. 391 Canad. Ent. 41.—H. mutilatum Walk. to Issoscepa, DISTANT p. 80 Ann. Nat. Hist. 4.

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Lollius mouhoti sp. n. Cambodia, DISTANT p. 75 Ann. Nat. Hist, 4. Lollius cf. Hysteropterum.—L. carinatus sp. n. Key, Schmidt Stettiner ent. Ztg 71 p. 164.

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Thoodzata basifusca sp. n. Sumatra, Schmidt Stettiner ent. Ztg. 70 p. 244.

Tomaspisina gen. n. type Sphenorhina frontalis Walk., DISTANT p. 206 Ann. Nat. Hist. 3.

Tomaspis parana p. 193, consanguinea, chapada, brasiliensis, p. 194, spectabilis, fryi, p. 195, jonesi, saccharina p. 196, S. America, dominicana, jamaicensis, p. 197, Antilles, multicolor, dissimilis, p. 198, astrallis, funebris, p. 199, noctua, combusta, p. 200, chilensis, p. 201, fraseri, proserpina, p. 202, hebes, dimorpha, p. 203, spp. n., synonymy and additions p. 204, DISTANT T.c.—T. nigrofasciata sp. n. Ost-Afrika, Melichar Čas. České Spol. Entomolog. 1908 pp. 1–15.

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JASSIDAE.

Acocephalus tricinctus and bifasciatus distinguished, EDWARDS p. 201 Ent. Mag. 45.

Agallia hilaris sp. n. Gran Canaria, HORVÁTH Ann. Mus. Hung. p. 297.—
A. usambarensis sp. n. Ost-Afrika, MELICHAR Čas. České Spol. Entomolog. 1908 pp. 1–15.—A. deleta sp. n. Florida, VAN DUZEE Bull. Soc. Buffalo pp. 210–211.

Athysanus insularis sp. n. Amirantes, DISTANT Tr. Linn. Soc. 13 p. 47 pl. iv f. 10.

Balclutha pellucens sp. n. Iles Canaries, Horvath Ann. Mus. Hung. 7 p. 296.

Chelusa seychellensis sp. n. Farquhar Atoll, DISTANT p. 46 pl. iv f. 12 Tr. Linn. Soc. 13.

Chlorotettix unicolor=(vanduzei Bak.), VAN DUZEE p. 384 Canad. Ent. 41.

Deltocephalus arunda sp. n. W.-Austral., JACOBI p. 343 in Michaelsen 2.

Diestostemma lacteoguttatum Bolivia, rufocirculum Venezuela & Columbia, limbatipenne Columbia, excisum Ecuador & Peru, ruforeticulatum Chiriqui & Costa Rica, pistor Brasilia, diommonotum Costa Rica, parvum Ecuador, steinbachi Bolivia, nasulum Ecuador, spp. n., SCHMIDT Stettiner ent. Ztg 71 pp. 42-58.

Duratopsis gen. n., katonae sp. n. Ost-Afrika, Melichar Čas. České Spol. Entomolog. 1908 pp. 1-15.

Empoasca superba sp. n. Ost-Afrika, MELICHAR pp. 1-15 T.c.—E. mali, life history, Washburn J. Econ. Ent. pp. 54-59 pl.

Errhomenellus friscanus p. 182, aridus p. 183, spp. n., California, Ball. Canad. Ent. 41.

Erythroneura apiculata, perspicillata, spp. n., Ténériffe, Horváth Ann. Mus. Hung. 7 pp. 295–296.

Euacanthus interstinctus Fall. =(acuminatus Fabr.), KIRKALDY p. 32 Canad. Ent. f. 41.

Eurymeloides acmaeops p. 340, lenis p. 341, spp. n., W. Australia, Jacobi in Michaelsen 2.

Eutettix bartschi fig., nitens, spp. n. Florida, Van Duzee Bull. Soc. Buffalo 9 p. 223.—E. (Mesamia) illumina p. 80,

animana, aurata, p. 81, E. amanda p. 82, spp. n., N. America, Ball Canad. Ent. 41.

Galboa gen. n. Bythoscopinae p. 45, typica sp. n. Mahé pl. iv. f. 11 p. 46, DISTANT Tr. Linn. Soc. 13.

Hecalus apicalis sp. n. Florida, VAN DUZEE Bull. Soc. Buffalo 9 p. 217 fig.

Idiocerus rutilans and elegans distinguished, Edwards p. 6 Ent. Mag. 45.—I. fitchi n. n. for maculipennis Fitch, Van Duzee p. 383 Canad. Ent. 41.

Ipo torpens p. 341, procurrens p. 342, spp. n. W.-Austral., JAROBI in Michaelsen 2.

Koebelia irrorata, coronata, grossa, spp. n., California, BALL p. 185 Canad. Ent. 41.

Lonatura bicolor sp. n. Florida, VAN DUZEE Bull. Soc. Buffalo p. 221 fig.

Macropsis grandis sp. n. California, BALL p. 186 Canad. Ent. 41.

Neocoelidia candida p. 166, reticulata, compta, p. 167, pulchella, tripunctata, p. 168, spp. n., U.S., Ball Ent. News 20.

Neoslossonia gen. n. near Dorycephalus type Dorycephalus putnami Osborn, atra sp. n. Florida, p. 218, VAN DUZEE Bull, Soc. Buffalo 9.

Notocephalius gen. n. Cephalelinorum, hartmeyeri sp. n. W.-Austral., Jacobi p. 339 in Michaelsen 2.

Pachynus quadriocellatus, quadripunctulus, spp. n., Ost-Afrika, MELICHAR Čas. České Spol. Entomolog. 1908 pp. 1– 15.

Pagaronia; taxonomy, P. 13-punctata var. n. octopunctata Kirkaldy p. 70 Proc. Hawaii ent. Soc. 2.

Paradorydium michaelseni sp. n., W.-Austral., JACOBI p. 339 in Michaelsen 2.

Parasudra gen. n. near Sudra p. 263, sumatrana sp. n. Sumatra p. 265, SCHMIDT Stettiner ent. Ztg 70.

Paropulopa friscana, p. 183, arborea, californica, p. 184, spp. n., California, BALL Canad. Ent. 41.

Penthimia irrorata sp. n. Ténériffe, Horváth Ann. Mus. Hung. 7 p. 297.

Phlepsius attractus p. 77, floridanus, tubus, p. 78, utahnus p. 79, tigrinus, p. 80,

spp. n., N. America, Ball Canad. Ent. 41.—P. solidaginis = (humidus V.D.), VAN DUZEE p. 384 Canad. Ent. 41.

Platymetopius nigriviridis with dixianus var. n. p. 163, majestus California, frontalis dorsalis var. n., p. 164, scriptus, abruptus, p. 165, spp. n., U.S., BALL Ent. News 20.

Scaphoideus albonotatus sp. n. Florida, Van Duzee Bull. Soc. Buffalo 9 p. 226. —S. bicolor sp. n. California, Ball Ent. News 20 p. 166.—S. catalinus p. 82, pellucidus p. 83, spp. n., N. America, scrupulosus var. n. reductus p. 84, Ball Canad. Ent. 41.

Stictodepsa neotropicalis n. n. for fuscata Fabr., Kirkaldy p. 32 Canad. Ent. 41.

Sudra borneensis sp. n. Borneo, Schmidt Stettiner ent. Ztg 70 p. 265.

Tartessus occidentalis sp. n. W.-Austr., Jacobi p. 342 in Michaelsen 2.

Tettigonia dorsisignata and rubescens, position doubtful, Fowler p. 322 Biol. Centr. Amer. Rhynch. Homopt. 2.

Tettigoniella bimaculuta sp. n. Ost-Afrika, Меліснав Čas. České Spol. Entomolog. 1908 p 1-15.

Typhlocyba rubricata sp. n. Florida, VAN DUZEE Bull. Soc. Buffalo p. 229. —Typhlocyba, two species (Japanese), TAKAHASHI Tokyo Sangyo Sinpo Sericultural Journal 199 p. 19-22.

PSYLLIDAE.

Einleitung in das Studium, synoptische Tafel und Artensynonymenkatalog der Gattung *Psylla*, im palaearktischen Gebiete (Böhmisch); SULC Věstn. České Spol. Náuk 1909 pp. 46 2 Tab.

†Über das Schicksal der Archipsylliden; Handlirsch Zool. Anz. 35 pp. 233-240.

Psylla; weidenbewohnende, Synonymie, klapaleki sp. n. Siebenbürgen, Šulc Ent. Ztg. Wien 28 p. 17.—P. ptarmicae sp. n. Europe, Kieffer Bull. Soc. Metz 26 p. 2.—P. pyrarboris, corcontum spp. n., Böhmen, Šulc Věstn. České Spol. Náuk 1909 p. 46.—P. spartii, spartiicola sp. n., Šulc Rozpr. České Ak. Frant. Jos. 1907 p. 8.—P. lemurica sp. n. Madagaskar, Šulc Čas. České Spol. Entomolog. 1908 pp. 77-82.—P. floccosa sp. n. Maine, Patch p. 301 pl. ix Canad. Entom. 41.

Trioza cockerelli sp. n. Nord-Amerika, Oekonom. Bedeutung, Šulc Čas. České Spol. Entomolog. 1909 pp. 102-109.

ALEURODIDAE.

The genera of Aleurodidae and lists of the species, QUAINTANCE Gen. ins. 87 11 pp. and 2 pls.

Aleurodes voeltzkowi sp. n. Madagaskar, Newstead Reise Ostafrika 2 p. 355.

Aleyrodes nubifera sp. n. Florida pp. 68-71, Berger Bull. Agric. Exp. Sta. Florida 97.—A. nubifera distribution pp. 173-174, citri (= A. aurantii Maskell) p. 174, QUAINTANCE Tech. Ser. U.S. Dept. Agric. Ent. No. 12 Pt. 9.—A. howardi on Florida orange, BACK J. Econ. Ent. 2 p. 448.—A. vitrinellus Ckll. described, Cockerell Ent. News 20 p. 215.

Aleurodicus conspurcatus sp. n. Brasilia, Enderlein Stettiner ent. Ztg 70 pp. 282-284.

Paraleyrodes gen. n. pp. 169-170 type Aleurodicus perseæ, ff. 35 & 36, QUAINTANCE Tech. Ser. U. S. Dept. Agric. Ent. No. 12 Pt. 9.

Udamoselis gen. n. pigmentaria sp. n. S.-America, Enderlein Zool. Anz. 34 pp. 230-233.

APHIDAE.

Studies on Aphididæ, 2, DAVIS Ann. Ent. Soc. Amer. pp. 30-42 pls. v-vii.

Plant louse notes; GILLETTE J. Econ. Ent. 2 pp. 351-358 pl. xii, and pp. 385-388 pl. xiii.

Die zyklische Fortpflanzung der Pflanzenläuse; Mordwilko Biol. Centralbl. 29 pp. 82-96, 97-118, 147-160, 164-182.

Hemipterocecidien der Insel Bornholm; BAYER Wien Verh. Zool. Bot. Ges. 59 pp. 104-120.

Some new records of Aphididae in North America, Wilson J. Econ. Ent. 2 pp. 346-350 figs. 7 & 8.

Aphid technique, HAYHURST Ent. News 20 pp. 255-260.

Die Blattläuse des Efeus, der Fuchsie und des Salats; Petri Natur u. Kultur 6 pp. 587-595, 625-628, 656-660, 690-696.

Acanthochermes quercus, studî, GRASSI Rend. Acc. Lincei 18 1° Sem. pp. 537-(n-11091 j) 540; Uovo d'inverno, Fol Rend. Acc. Lincei 18 1° Sem. pp. 540-541.

0 1 1

Aphis; on cattle, Collinge J. Cooper Lab. 1 p. 51.—A. tavaresi sp. n. pl. xvi figs. 1 & 2 Zambesi, Del Guercio Broteria 7 p. 143.—A. viburnicola sp. n. Colorado, Gillette Ent. News 20 p. 280 pl. xi.—A. saliceti, Oogenese und Spermatogenese, Baehr Arch. Zellforschg 3 pp. 269-333 4 Taf.—A. atriplicis habits, parasites etc., Hayhurst Ann. Ent. Soc. Amer. 2 pp. 95-99 pl. xv.—A. maidi-radicis Forbes, distribution, food plants, life history complete and in detail, descriptions of the various instars of viviparous and oviparous generations pp. 123-137, tables i-iv and ff. 31 & 32; analytical bibliography pp. 137-144; maidis Fitch distribution, food plants, life history, descriptions of all the instars of the viviparous generation, pp. 144-151, tables vii-ix, f. 33; analytical bibliography pp. 151-156, Davis Tech. Ser. U. S. Dept. Agric. Bur. Ent. No. 12 Pt. 8.

Aphrastasia pectinatae, Nüsslin Zs. wiss Insektenbiol. 5 pp. 349-353 & 373-380.

Brachycolus ballii, GILLETTE Ent. News 20 p. 119.

Callipterus flabellus, GILLETTE p. 120 pl. viii T.c.—C. trifolii, Folsom pp. 103– 106 pl. iii figs. 5 & 6 Rep. Ent. Illinois 25.

Chermes; Die neueren Ergebnisse und Aufgaben der Chermes-Forschung (Zusammenfassende Ubersicht); Zool. Zentralbl. 16 p. 694-673.—N. American spp., Patch Bull. Maine Agric. exp. Sta. 173 pp. 277-308 figs. 108-145.—C. pinifoliae p. 136, abielis, similis, galls, floccus consolidatus lariciatus, p. 137, spp. n., Maine, Patch Psyche 16.—C. pinifoliae and abielicolens synonymy, abielis, synonymy, Patch Agric. Exp. Sta. Maine Bull. 171.—C. pini, Les ailés non gallicoles, Marchal Paris C. R. soc. biol. 65 1908 pp. 229-230.—Biologie und Systematik der Chermesiden; Börner Biol. Centralbl. 29 pp. 118-125, 129-146.

Cladobius rufulus sp. n. California, DAVIDSON J. Econ. Ent. 2 p. 300.

Gillettea gen. n. fur Chermes cooleyi Gillette, Börner Zool. Anz. 34 p. 504.

Hyalopterus aquilegiæ-flavus (Kittel), p. 107 pl. i figs. 1-8, dactylidis sp. n.

d 35-2

Massachusetts p. 109 figs. 9-14, Hav-HURST J. Ent. Soc. New York 17.

Idiopterus gen. n. compared to Drepanosiphum, p. 198, nephrelepidis sp. n. Illinois on ferns in greenhouses p. 199 pl. xxvii ff. 9-15, Davis Ann. Ent. Soc. Amer. 2.

Lachnidi italiani; Guercio Redia 5 pp. 173-359 con 32 fig. 12 tav.

Lachnus pini-radiatæ p. 299, occidentalis p. 300, spp. n., California, DAVIDSON J. Econ. Ent. 2.

Longistigma gen. n. for Lachnus caryae, caryae = (longistigma Mon. = platanicola Ril.) description, Wilson pp. 385-387 Canad. Ent. 41.

Macrosiphum; Synopsis und Beschreibung der Arten, pisi Lebensweise, Entwicklung, Bekampfung, cholodkovskyi, portschinskyi, auf Spiraea, spp. n., MORDVILKO Trd. b. entom. učzn. Kom. Gl. Upr. Zeml. 8 3.—M. orthocarpus sp. n. California, DAVIDSON J. Econ. Ent. 2 p. 304.—M. pisi natural history, Folsom pp. 66-82 pl. iii figs. 1-4 Rep. Ent. Illinois 25.

Microparsus gen. n. near Macrosiphum p. 337, variabilis sp. n. Maine p. 338 pls. xxviii & xix, Patch Ent. News 20.

Pachypappa lactea sp. n. Schweden, TULLGREN Ark. Zool. 5 No. 14 fr. 69 f. 22-25.

Pemphiginae; Systematik, Tulloren Ark. Zool. 5 No. 14.

Pemphigus tessellata Fitch, life cycle, PATCH J. Econ. Ent. 2 p. 35.—P. coweni to Phyllaphis, the forms, GILLETTE pp. 41-45 Canad. Ent. 41.—P. bumeliae und poschingeri, MISSIIN Zool. Anz. 33 pp. 836-842 and 34 pp. 741-748.—P. borealis p. 142 f. 67-69 sp. n., lichtensteini p. 148 f. 70-72 nom. n. for bursarius Passerini, Schweden, TULLGREN Ark. Zool. 5 No. 14.—P. venafuscus sp. n. Maine, PATCH Ent. News 20 p. 319 pl. xvii.

Phylloxera foae sp. n. Vosgesen, Börner Zool. Anz. 34 p. 26.—P. quercus, osservazioni, Bonfigl. 1 Rend. Acc. Lincei 81° Sem. pp. 705-712; and T.c. pp. 25-30.—P. vastatrix, Grassi e Foà Rend. Acc. Lincei 18 2° Sem. pp. 161-169.

Phylloxerinae; ricerche, Grassi Rend. Acc. Lincei 18 1° Sem. pp. 657-661; quistioni collegantisi con lo studio di esse, Grassi pp. 520-528 T.c.; Grassi pp. 417-422 T.c.

Phymatosiphum gen. n. near Drepanosiphum p. 196, monelli sp. n. Missouri on Aesculus p. 197 pl. xxvii ff. 1-8, DAVIS Ann. Ent. Soc. Amer. 2.

Prociphilus cratægi sp. n. Schweden, TULLGREN Ark. Zool. 5 No. 14 p. 96 f. 44-48.

Schizoneura lanigera, Schaden und Bekampfung im Kaukasus, Rollov Kavkazsk Choz. 1909 2 pp. 1-4; Lebensgeschichte und Bekämpfung, Goethe Berlin 1909 24 pp.; lifehistory, habits, Collinge J. Cooper Lab. 1 pp. 28-37; metamorphosis (Japanese). Kadomai Konch. Sek. 13 pp. 8-12.—S. lusitanica sp. n. S. Fiel, Horvath Broteria 7 p. 132.

Sipha flava from Chaitophorus, account, habits, life-history of the viviparous and oviparous generations, descriptions of instars, pp. 156-167, tables x-xiv, f. 34; analytical bibliography pp. 167-168; Davis Tech. Ser. U. S. Dept. Agric. Ent. No. 12 Pt. 8.

Siphocoryne conii sp. n. California, DAVIDSON J. Econ. Ent. 2 p. 304.

Siphonophora pisi, ulmariae caraganae, Beschreibung, Auftreten der Generationen, Futterpflanzen (Russ.), CHOLOD-KOYSKY Trd. b. entom. učen. Kom. Gl. Upr. Zeml. St. Peterburg 8 1 pp. 15 8 fig. i.—Siphonophora rosarum Anatomy, pt. i; GROVE Parasitology 2 pp. 1-28 pl. i.

Toxoptera graminum, natural history, HUNTER & GLENN Bull. Univ. Kansas 9 No. 2 vii + 221 pp.; life-history and natural enemics, pp. 67-87 pl. xiv, map, WEBSTER Ann. Ent. Soc. Amer. 2.

COCOIDAE.

Catalogue of recently described Coccidae, 2; SANDERS Tech. Ser. U. S. Dept. Agric. Ent. Part 3 pp. i-ii & 33-60.

The Coccidae of Ceylon, pt. iv, pp. 251-343 and pls. xeiv-exxxii, Green (dated 1909 but perhaps not published till 1910).

Beiträge zur Kenntnis der Schildläuse und ihrer Verbreitung, LINDINGER Zs. wiss. Insektenbiol. pp. 105-110 147-152 220-225.

Contribution à l'étude des Coccides de l'Afrique occidentale; MARCHAL Paris Mém. soc. zool. 22 pp. 165-182 av. fig.

Zur Anatomie der Cocciden; Sulc Zool. Anz. 34 pp. 164-172.

The identity and synonymy of some of our soft scale-insects, SANDERS J. Econ. Ent. pp. 428-448 pls. 19 & 20.

The Hymenoptera parasites of Coccidae, Morley Entomologist 42 p. 254 &c.

Standards of the number of eggs laid by Coccide, GIRAULT Ent. News 20 p. 355.

Aclerda distorta sp. n. Ceylon, GREEN Coccidae Ceylon p. 290 pl. cxi.

Antonina phragmitis sp. n. Midi de la France, MARCHAL Paris C. R. Acad. sci. 148 p. 172.

Aspidiolus; Archenomus parasite of; MARCHAL p. 144 Bull. Soc. ent. France 1909.—A. (Evaspidiolus) labiatarum sp. n. Midi de la France, MARCHAL Paris C. R. Acad. sci. 148 p. 872.—A. (Hemiberlesia) trabuti sp. n., MARCHAL Paris Bul. soc. zool. 34 p. 59.—A. (Hemiberlesia) vuilleti sp. n. Africa occ., MARCHAL p. 587 C. R. Soc. Biol. 63.—A. privignus sp. n. Italien and Grechenland, LINDINGER Zs. wiss. Insektenbiol 5 p. 151.—A. elaeidis sp. n. Afrique occidentale, MARCHAL Paris Bul. soc. zool. 34 p. 69.—A. arctostaphyli sp. n. California, Cockerell & Robbins J. Ent. Soc. New York 17 p. 104 fig. 1.—A. herculaneus sp. n. Society islands, Cockerell & Hadden p. 298 Canad. Ent. 41.

Asterolecanium exiguum p. 315 pl. cxviii figs. 6-11, rubrocomatum p. 316 pl. cxix, tenuissimum p. 318 pl. cxx figs. 1-4, udagamae p. 319 figs. 5-9, flavociliatum p. 323 pl. cxxii figs. 1-5, pudibundum p. 323 figs. 6-10, ceriferum p. 324 pl. cxxiii, coronatum p. 327 pl. cxxiv, tumidum p. 330 pl. cxxi figs. 6-10, thespesiae p. 331, pl. cxxii figs. 1-5, lineare but changed in appendix to lanceolatum p. 336 pl. cxxviii, spp. n., ceriferum var. prominens p. 326, miliaris longum p. 339, varr. n., Ccylon, GREEN Coccidae Ccylon.—A. pasaniae

sp. n. Japan, Kuwana & Cockerell. J. Ent. Soc. New York 17 p. 152 pl. vii fig. 1-6.

Cerococcus ornatus p. 306 pl. cxv, albospicatus p. 308 pl. cxvi, roseus p. 310 pl. cxvii, Ceylon, spp. n., Green Coccidae Ceylon.—C. muratae to Solemophora, Cockerell p. 55 Canad. Eat. 41.

Ceronema koebeli sp. n. Ceylon, Green Coccidae Ceylon p. 256 pl. xcvi.

Ceroplastes vuilleti sp. n., africanus var. senegalensis sp. n., uvariae sp. n., Afrique occidentale, MARCHAL Paris Bul. soc. zool. 34 p. 68.

Ceroplastodes chiton p. 287 pl. cix, virescens p. 288 pl. cx, Ceylon, spp. n., Green Coccidae Ceylon.

Chionaspis vuilleti sp. n. Afrique occidentale, Marchal Paris Bul. soc. zool. 34 p. 69.—C. etrusca sp. n. Italia, Leonardi Portici Ann. Scuola sup. agric. 8 Mcm. 5 p. 150-192.—C. kinshinensis sp. n. Japan p. 155 pl. ix figs. 34-37, Kuwana J. Ent. Soc. New York 17.—C. sassceri sp. n. California, Cockerell & Robins J. Ent. Soc. New York 17 p. 105 fig. 2.

Coccus muiri n.n. for tuberculatus Kot., Kotinsky p. 37 Proc. Hawaii Ent. Soc. 2.

Dactylopius, eyes, KRECKER Zs. wiss. Zool. 93 pp. 73-89 1 Taf.—D. virgatus var. n. madagascariensis, NEWSTEAD Reise Ostafrika pp. 349-356.

Diaspis (Adiscodiaspis) ericicola sp. n. Midi de la France, Marchal Paris C. R. Acad. sci. 148 p. 871.—D. pentagona, BOUVIER Bul. Muséum Paris 1909 pp. 336-347; notizie, LEONARDI Portici Ann. Scuola sup. agr. 8 Mem. 5 pp. 1-12; parasites, Iches Paris Bul. soc. ent. 1909 p. 182.

Eulecanium cecconii sp. n. Italia, LEONARDI Portici Ann. Scuola sup. agric. 8 Mem. 5 p. 150-192.

Fagisuga gen. n., triloba sp. n. Chile, LINDINGER Zs. wiss. Insektenbiol. 5 p. 107.

Furcaspis oceanica sp. n. Taluit Inseln, Lindinger p. 149 T.c.

Gymnaspis clusiae sp. n. Jamaika, Lindinger D. ent. Zs. 1909 p. 153. Hemiberlesia cecconi sp. n. Italia, LEONARDI Portici Ann. Scuola sup. agric. 8 Mem. 5 p. 150-192.

Houardia gen. n. Lecaniidae, troglodytes sp. n. W. Africa, MARCHAL p. 86 C. R. Soc. Biol. 66.

Icerya seychellarum var. n. cristata, NEWSTEAD Reise Ostafrika 2 pp. 349-356; I. seychellarum = (okadae Kuw.), Cockerell p. 55 Canad. Ent. 41.

Inglisia chelonioides sp. n. Ceylon, Green Coccidae Ceylon p. 283 pl. cvii.

Kermes bacciformis sp. n. Italia, LEONARDI Portici Ann. Scuola sup. agric. 8 Mem. 4 p. 1-44.—K. himalayensis sp. n. India, Green p. 10 Ent. Mag. 45.

Lecaniodiaspis azadirachtae p. 298 pl. cxii, malaboda p. 300 pl. cxiii, spp. n. Ceylon, Green Coccidae Ceylon.

Lecanium nicotianae sp. n. Madagaskar, Newstead Reise Ostafrika 2 p. 352.—L. (Coccus) fukayai, ochnaceæ, spp. n. Japan, Kuwana J. Ent. Soc. New York 17 p. 154 pl. vii.—L. du Robinia, Marchal Paris C. R. soc. biol. 65 1908 pp. 2-5.—L. corni, Bekämpfung, Quander Tijds. Plantenziekten 15 pp. 100-127 1 Taf.

Lecanopsis mirmecophila sp. n. Italia, LEONARDI Portici Ann. Scuola sup. agric. 8 Mem. 5 p. 150-192.

Leucaspis ephedrae sp. n., MARCHAL. Paris Bul. soc. zool. 34 p. 59.

Lichtensia japonica sp. n. Japan, Kuwana J. Ent. Soc. New York 17 p. 152 pl. viii ilgs. 16-27.

Matsucoccus gen. n. for Xylococcus matsumurae, Cockerell p. 56 Canad. Ent. 41.

Mesolecanium perditulum sp. n. Nicaragua, Cockerell & Robins p. 150 Canad. Ent. 41,

†Monophlebus trivenosus to Ceroputo, Cockerell p. 100 Entomologist 42.

Mytilaspis (Lepidosaphes) buzenensis p. 155 pl. ix figs. 38-41, uniloba p. 156 figs. 42-45, spp. n., Japan, Kuwana J. Ent. Soc. New York 17.—M. ficifolii, sp. n. Italia, Berlese Atti R. Ist. incoragg. Napoli 55 1904 Mem. 12 pp. 1-5.

Neolecanium crustuliforme sp. n. Ceylon, Green Coccidae Ceylon p. 252 pl. xciv. Orthezia martellii sp. n. Italia, LEONARDI Portici Ann. Scuola sup. agr. 8 Mem. 4 p. 1-44

Parlatoria cinerea sp. n. Society islands, HADDEN p. 299 Canad. Ent. 41.

Phenacoccus graminicola, formicarum, spp. n., Italia, LEONARDI Portici Ann. Scuola sup. agric. 8 Mem. 4 p. 1-44.

Pollinia ceylonica sp. n. Ceylon, GREEN Coccidae Ceylon p. 341 pl. cxxx.

Protopulvinaria longivalvata sp. n. Ceylon, Green T.c. p. 254 pl. xev.

Pseudococcus myrmecarius, longipes, cycliger, spp. n., Italia, Leonardt Portici Ann. Scuola sup. agric. 8 Mem. 4 p. 1-44.—P. platani male, Vaney et Conte Paris C. R. ass. franç. avanc. sci. 36 2° Partie pp. 620-622.—P. trifolii, Folsom pp. 117-123 Rep. Ent. Illinois 25.

Pulvinaria thespesiae p. 259 pl. xevii, cellulosa p. 262 pl. xeix, ixorae p. 266 pl. ci, Ceylon, spp. n., Green Coccidae Ceylon.

Ripersia libera, sardiniae, inquilina, hypogea, spp. n., Italia, Leonardr Portici Ann. Scuola sup. agric. 8 Mem. 5 p. 150-192.

Takahashia citricola sp. n. Japan, Kuwana J. Ent. Soc. New York 17 p. 153 pl. viii.—T. japonica, Kotinsky p. 72 Proc. Hawaii ent. Soc. 2.

Targionia alni sp. n. Midi de la France, Marchal Paris C. R. Acad. sci. 148 p. 872.

ANOPLURA or ELLIPOPTERA

The genera of Anoplura, DALLA TORRE Gen. ins. 81 22 pp. and 1 pl.

Antarctophthirus lobodontis sp. n. Antarktis, Enderlin D. Südpolar. Exped. 10 H. 4 p. 476.

Haematopinus phacochoeri sp. n. Kilimandjaro, Enderlein Kilimandjaro-Meru Exp. 11 2 p. 7 fig.—H. notophallus sp. n. O. Afrika, Neumann Wiesbaden Jahrb. Ver. Natk. 62 p. 2.

Hybophthirius gen. n. near Haematopinus, orycteropodis sp. n. S. Afrika, Enderlein Jena Denkschr 14 p. 79.

THYSANOPTERA.

Thysanoptera del Trentino; Cobelli Wien. Verh. Z. B. Ges. 59 pp. 1-5.

Thysanoptera in hot-houses Brussels, BAGNALL pp. 171-176 Ann. Soc. ent. Belgique 53.

Actinothrips gen. n. p. 332, longicornis sp. n. Venezuela p. 333 pl. xlvi, BAGNALL J. Linn. Soc. 30.

Adiaphorothrips gen. n. near Macrothrips p. 536, simplex sp. n. Borneo p. 537 and pl. xiv figs. 23 & 24, BAGNALL Tr, Newcastle Soc. 3.

Aleurodothrips gen. n. type Cryptothrips fasciapennis. p. 228 figs. 1 & 2, Franklin Ent. News 20.

Allothrips megacephalus &, Shull, Ent. News 20 p. 228.

Amphibolothrips gen. n., grassi sp. n. Roma, Buffa Portici Boll. Lab. zool. 3 p. 193 3 fig.

Anactinothrips, gen. n. p. 329, meinerti sp. n. Venezuela p. 330 pl. xlvi figs. 1-7, Bagnall J. Linn. Soc. 30.

Anaphothrips orchidaceus sp. n. hothouses in Britain and Ircland, BAGNALL p. 33 Ent. Mag. 45.—A. striatus 3, p. 224 Shull Ent. News 20.

Autothrips simplex sp. n. Tunisi, Buffa Redia 5 fasc. 2 pp. 157-172.

Baliothrips basalis sp. n. Michigan p. 224 f. 5, Shull Ent. News 20.

Bebelothrips gen. n., latus sp. n. Isola del Giglio, BUFFA Portici Boll. Lab. zool. 3 p. 193-196.

Cephalothrips spinosus sp. n. hothouse Brussels, Bagnall p. 174 Ann. Soc. ent. Belgique 53.

Chirothrips similis sp. n. England, BAGNALL p. 34 J. econ. Biol. 34.

Dicaiothrips gen. n., bottegii sp. n. Boran Galla, BUFFA Redia 5 pp. 157-172.—D. malayensis pl. xiv f. 4 and p. 525, denticollis f. 5 and p. 527, spp. n. Nias, BAONALL Tr. Newcastle Soc. 3.

Docessissophothrips monstrosus sp. n. New Caledonia, BAGNALL T.c. p. 538 pl. xiv f. 25.

Elaphrothrips gen. n., uniformis sp. n. Guinca portoghese, Buffa Redia 5 pp. 157-172 1 tav.

Euthrips longipennis sp. n. hothouses Brussels, Bagnall p. 173
Ann. Soc. ent. Belgique 53.—
E. citri sp. n. California p. 119
pl. viii, Moulton Tech. Ser. U.S.
Dept. Agric. Ent. No. 12 Pt. 7.—E.
pyri, Moulton U.S. Dept. Agric. Ent.
Bull. 80 Part 4.

Heterothrips salicis sp. n. Michigan p. 220 f. I, Shull Ent. News 20.

Leptothrips gen. n. type Cryptothrips aspersus Hinds, Hood p. 249 Ent. News. 20.—L. flavicornis sp. n. Madeira, BAGNALL Tr. Newcastle Soc. 3 p. 528 and pl. xiv figs. 6-8.

Liothrips major sp. n. Eritrea, BUFFA. Redia 5 pp. 157-172.

Megathrips nobilis sp. n. England, BAGNALL p. 130 Ent. Mag. 45.

Orinothrips gen. n., inermis sp. n. Ighibirei, BUFFA Redia 5 pp. 157-172.

Panurothrips gracilis, BAGNALL Tr. Newcastle Soc. 3 p. 524 pl. xiv figs. 1-3.

Phloeothrips similis p. 533 pl. xiv figs. 15-19, longitubus p. 534 and figs. 20 & 21, spp. n. Java, Bagnall T.c.—
P. maculatus sp. n. Michigan, Hood Ent. News 20 p. 250 f. 1.

Phyllothrips umbripennis sp. n. Illinois and Michigan, Hood T.c. pp. 30-32 f. 3 & 4.

Physopus basicornis Reuter sp. n. Deutschl., Grevillius Begleitwort zu Zoocecidia et Cccidozoa Lfg. 4 Nr. 76-100 p. 17.

Plectrothrips collaris sp. n. Nias, Bagnall Tr. Newcastle Soc. 3 p. 531 & pl. xiv figs. ii-xiv.

Polyommatothrips gen. n. ex Heterothrips silvestrii Buffa 1908, Buffa Redia 5 pp. 157-172. Scirtothrips gen. n. near Anaphothrips, ruthveni sp. n. Michigan, p. 222 figs. Shull Ent. News 23.

Trichothrips tridentatus p. 226, brevieruralis p. 227, Michigan spp. n., Shull T.c.—T. smithi sp. n. Illinois, Hood Ent. News 20 pp. 29-30 f. 1, 2.

Thrips brachycephala sp. n. Kerquelen, Enderlein D. Südpolar-Exped. 10 H. 4 p. 441.—T. juniperina Linn., BAGNALL p. 39 J. econ. Biol. 4.

Urothrips gen. n. Urothripidae fam. n., paradoxus sp. n. German East Africa, BAGNALL Ann. Mus. Hung. 7 p. 125 pl. iii.

Zygothrips jordani sp. n. Nias, BAG-NALL Tr. Newcastle Soc. 3 p. 530 and pl. xiv figs. 9 & 10.

PSOCIDÆ or PSOCOPTERA.

Copeognathen (Erste Reihe) (Biospeologica, xi), Enderlein Arch. Zool. 1 pp. 533-539 fig.

List of Swedish Copeognatha; Tull-Gren Ark. Zool. 5 No. 8.

Über einige finländische Copeognathen; REUTER Medd. Soc. Fauna Fenn. 35 pp. 204-210.

†Zur Kenntnis frühjurassischer Copeognathen und Coniopterygiden und über das Schicksal der Archipsylliden; Enderlein Zool. Anz. 34 pp. 770-776.

Caecilius mexicanus, podacrophaeus, spp. n., Mexico, Enderlein Portici Boll. Lab. zool. 3 p. 329-339.

Dasydemella gen. n., silvestrii sp. n. Mexico, Enderlein p. 329-339. T.c.

Graphopsocus mexicanus sp. n. Mexico, Enderlein p. 329-339 T.c.

Harpezoneura gen. n. near Amphipsocus, mutifurcata sp. n. Transvaal, Enderlein Stettiner ent. Ztg 70 p. 270.

Leptopsocus exiguus Reut. an extreme aberration of Pterodela pedicularia, TULLGREN Ark. Zool. 5 No. 8 f. 1. p. 10.

Monocladellus gen. n. near Polypsocus p. 266, ohausianus sp. n. p. 267 Ecuador, Enderlein Stettiner ent. Ztg 70.

Myrmicodipnella gen. n., aptera sp. n. U.S.A., Enderlein Portici Boll. Lab. Zool. 3 p. 329-339.

Nymphoscopus troglodyta sp. n. p. 536 f. 9-11 & 13-14, var. n. algericus p. 538, Enderlein Arch. zool. 1.

Polypsocus nervulosus sp. n. Ecuador, Enderlein Stettiner ent. Ztg 70 p. 269.

Prionoglaris gen. n. p. 533, stypia sp. n. p. 534 fig. 1-8, ENDERLEIN Arch. zool. 1.

Psocus major Kolbe =? Ps. sexpunctatus, Tullgren Ark. Zool. 5 No. 8. p. 6.

Trichadenotecnum gen. n. typ. sexpunctatum, Enderlein Portici Boll. Lab. zool. 3 p. 329-339 4 fig.

Tricladellus nom. n. für Tricladus Enderl. 1906, Enderlein Stettiner ent. Ztg 70, p. 273.

Troctes corrodens sp. n. Berlin, imported, Heymons D. ent. Zs. 1909 p. 452.—T. transvaalensis sp. n. Transvaal, Enderlein Stettiner ent. Ztg 70 p. 272.—T. prenolepidis sp. n. California, Enderlein Portici Boll. Lab. zool. 3 p. 329-339.

MALLOPHAGA or LIPOPTERA.

Goniodes tetraonis structure, natural history, Shipley P.Z.S. 1909 pp. 309-319 and pls. xl & xli.

Lipeurus lepturus p. 453, prioni p. 454, spp. n. Kerguelen, ENDERLEIN D. Südpolar Exped. 10 H. 4.

Menopon spiniger sp. n. S. Afrika, ENDERLEIN Jena Denkschr. 14 p. 80. —M. lemniscatum sp. n. Kerguelen, ENDERLEIN D. Südpolar Exped. 10 H. 4 p. 456.

Nirmus cameratus, Shipley Proc. zool. Soc. 1909 p. 319 and pl. xlii.

Pelmatocerandra gen. n. für Nirmus setosus Giebel, Enderlein D. Südpolar Exped. 10 H. 4 p. 449.

Ricinus fuscolaminulatus sp. n. Kerguelen, Enderlein D. Südpolar-Exped. 10 H. 4 p. 447.

ISOPTERA or TERMITIDAE.

Escherich's neue Termitenstudie; WASMANN Biol. Centralbl. 29 pp. 216-224.

Anatomic, Verwandtschaftsbeziehungen etc. der Termiten; HOLMGREN Stockholm Vet. Ak. Handl. 44 No. 3 pp. 1-215.

Inzucht bei Termiten; Holmgren Biol. Centralbl. 29 pp. 125-128.

Isoptera; Silvestri in Die Fauna Südwest-Australiens, hrsg. v. W. Michaelsen u. R. Hartmeyer Bd. 2 Lfg 17 Jena 1909 pp. 279–314, mit 6 Taf.

Termes e Calotermes: forme ginecoidi ed anomalie; Sandias Palermo Giorn. Sc. nat. econ. 26 pp. 131-136.

Calotermes koshunensis sp. n. Formosa, Shiraki Trans. Entom. Soc. Japan 2 pp. 229-242.

Coptotermes formosanus sp. n. Formosa, Shiraki pp. 229-242 T.c.—C. michaelseni sp. n. W.-Austral., Silvestri in Michaelsen 2 p. 293.

Drepanotermes gen. n. für Termes perniger Froggatt, Silvestri p. 295 T.c.

Eutermes nitobei sp. n. Formosa, Shiraki Trans. Entom. Soc. Japan 2 pp. 229-242.—E. apiocephalus p. 306, occasus p. 307, spp. n. W.-Austral., Silvestri in Michaelsen 2.

Hamiternes heterognathus, obeuntis, spp. n., W.-Austral., Silvestri p. 301 T.c.

Hodotermes ahngerianus etc., Bauten in Central-Asien, Soldaten and Arbeiter, KARAWAJEW Rev. russ. ent. 9 pp. 159-162.

Microcerotermes distinctus Austral. p. 305, peraffinis Samoa p. 304, spp. n., SILVESTRI in Michaelsen 2.—M. ? kauderni sp. n. Madagaskar, HOLMGREN Ark. Zool. 5 No. 13 p. 6.

Mirotermes baculiformis sp. n. Madagaskar, Holmgren p. 12 T.c.—M. kraepelinii sp. n. W.-Austral., Silvestri p. 298 in Michaelsen 2.

Monodontermes gen. n., hartmeyeri, p. 299, perarmatus p. 300, spp. n. W.-Austral., Silvestri T.c.

Prorhinotermes gen. n. p. 286, inopinatus sp. n. p. 287 Samoa, SILVESTRI T.c.

Psalidotermes gen. n. für Termes ferox Froggatt, Silvestri p. 296 T.c.

Schedorhinotermes gen. n. für Rhino termes intermedius Brauer p. 289, dimorphus Desn. subsp. n. robustior Bismarck-Archipel p. 292, SILVESTRI T.c.

Termes formosana n. sp. Formosa, Shiraki Trans. Entom. Soc. Japan 2 p. 229-242.—T. speratus and flavipes in Japan, former in Formosa, Oshima Dobuts. Z. 20 1908 (512-517).

EMBIOPTERA or EMBIIDAE.

Calamaclostes gen. n. near Embia, albistriolatus sp. n. Ecuador, Enderlein Zool. Anz. 35 p. 188.

Donaconethis gen. n. near Embia, abyssinica Eritraea ehrenbergi Eegypten, spp. n., Enderlein pp. 176-178 T.c.

Embia duplex, cephalotes, p. 50, silvanoi p. 51, Spain and Portugal, spp. n., NAVAS Broteria 7.—E. vossleri O. Africa p. 181, collariger Eritraea p. 182, flavicollis Bolivia p. 184, adspersa p. 185, tenuis p. 186, Bolivia, spp. n., ENDERLEIN Zool. Anz. 35.

Monotylota gen. n. near Embia, Enderlein p. 188 T.c.

Oligotoma bicingillata sp. n. Brasilia, Enderlein p. 191 T.c.

PLECOPTERA or PERLIDAE.

Systematische Bemerkungen; Kla-PÁLEK pp. 230-232 Ent. Ztg Wien 28.

Acroneuria fulva, stigmatica, jouklii, spp. n., Klapálek Rozpr. České Ak. 1907 p. 28.—Acroneuria, Klapálek p. 226 Ent. Ztg. Wien 28.—Bestimmungsschlüssel der nord-amerikanischen Arten; A. ampla Tonkin, brevicauda, N. America, spp. n., Klapálek Prag. Bull. Ac. Franc. Jos. 14 pp. 234 etc.—A. ampla Tonkin, brevicauda, evoluta Prov., Klapálek Prag Rozpr. České Ak. Frant. Jos. 1909 p. 21.—A. nobilitata sp. n. Tonkin, Enderlein Stettiner ent. Ztg 70 p. 346.—A. gracilenta sp. n. Brasilia, Enderlein Zool. Anz. 34 p. 397.

Anacroneuria gen. n. for Neoperla End. nec Needh., Klapálek p. 228 Ent. Ztg Wien 28.

Aucklandobius gen. n. near Notoperla, complementarius sp. n. Auckland-Inseln, ENDERLEIN D. ent. Zs. 1909 pp. 680-682.

Capnia conica sp. n. Austria, Kla-PÁLEK Čas. České Spol. Entomolog. 1909 p. 101.

Chloroperla; Synonymie, Klapálek p. 228 Ent. Ztg Wien 28.

Etrocorema gen. n., E. ahenobarba sp. n. Perak, Klapálek Ent. Ztg Wien 28 p. 222.

Euryplax gen. n. p. 225, E. ochrostoma sp. n. Malacca p. 226, KLAPÁLEK T.c.

Gripopteryx tigrina var. n. hyalinipennis Peru, Enderlein Zool. Anz. 34 p. 415.

Hemacroneuria gen. n. near Acroneuria, violacea sp. n. Tonking, Ender-Lein p. 395 T.c.

Isogenus aemulum sp. n. Riesengebirge, Enderlein Stettiner ent. Ztg. 70 pp. 239-244.

Isoptena gen. n. für Isopteryx serricornis Pictet, Enderlein Zool. Anz. 34 p. 414.

Javanita gen. n., KLAPÁLEK p. 224 Ent. Ztg Wien 28.

Kaminuria quadrata, bolivari, spp. n., Klapálek Rozpr. České Ak. Frant, Jos. 1907 p. 13-17. Kiotina pictetii, angusta, spp. n., Klapálek p. 28 T.c.

Lerpa subgen. n., beraudi sp. n. Syria, Navás Broteria 8 p. 102.

Macrogynoplax gen. n. near Ochthopetina, guayanensis sp. n. Guayana, Enderlein Zool. Anz. 34 p. 403.

Neoperla; analytische Ueber-icht der Arten; laticollis, N. nigricauda, N. excisa, N. dubia, Afrika, p. 218, N. indica India p. 219, N. rubens, mitis, Java, N. variegata, N. furcifera, N. naviculata, Borneo, p. 221, spp. n., Klapálek Ent. Ztg. Wien 28.—N. geniculata, niponensis, Klapálek Rozpr. České Akfrant. Jos. 1907 pp. 24-28.—N. sjoestedti p. 55 Kilimandjaro, africana p. 56 Kamerun, spp. n., Klapálek Kilimandjaro-Meru Exp. 14 3.—N. guatemalensis Guatemala p. 161, ohausiana Ecuador p. 164, pistacina Ecuador p. 166, hieroglyphica Ecuador p. 167, schmidti Ecuador p. 169, pehleia p. 174, spp. n., costalis var. n. fuscicosta Brasilia p. 178, Enderlein SitzBer. Ges. natf. Freunde 1909.—N. boliviensis Bolivia, angusticollis Columbia, laticeps Brasilia spp. n., Enderlein Zool. Anz. 34 pp. 408-410.

Niponiella gen. n., limbatella sp. n., Klapálek Rozpr. České Ak. 1907 p. 28.

Notoperla gen. n. für Antarctoperla fuegiana Enderl., Enderlein Zool. Anz. 34 p. 416.

Ochthopetina gen. n. p. 324, aerpennis p. 325, violaris Java p. 327, sumatrana Sumatra p. 331, laminulata Java p. 333, conradti Kamerun p. 335, tulgescens Borneo p. 337, minutissina Sumatra p. 341, camerunensis p. 343, didita p. 345 Kamerun, spp. n., Enderlein Stettiner ent. Ztg 10.—O. nigrogeniculata Malakka, borneensis Borneo, transvaalensis Transvaal, spp. n., Enderlein Zool. Anz. 34 pp. 400-402.

Oyamia gibba, seminigra, spp. n., Klapálek Rozpr. České Ak. Frant. Jos. 1907 pp. 21-24.

Paragnetina tinctipennis, Klapálek pp. 17-19 T.c.

Paragripopteryx gen. n. near Gripopteryx, klapaleki sp. n. loc. ?, Enderlein Zool. Anz. 34 p. 416.

Paranotoperla gen. n. near Notoperla, australica sp. n. Australia, Enderlein p. 416 T.c.

Perla kheili sp. n. Husesca, Navás Bol. Soc. Aragon 8 p. 100.—P. canilimbata Tonkin p. 347, sikkimensis Sikkim p. 349, spp. n., Enderlein Stettiner ent. Ztg 70.—P. lugubris McLachl. inc. sedis, Klapálek Rozpr. České Ak. Frant. Jos. 1907 p. 28.—P. internata, quebecensis, hieroglyphica, attenuata, californica, carolimensis, Klapálek op. cit. 1909 p. 21.
—P. marginata, Begattung, Riesen Berliner ent. Zs. 54 p. 37.

Perlodes (Dictyopteryx) bicolor sp. n. Madrid, Navás p. 372 Rev. Ac. Cien Madrid 7.

Tetropina gen. n., T. larvata sp. n. Borneo, Klapálek Ent. Ztg. Wien 28 p. 223.

Togoperla; T. limb tla, tennina, KLAPÁLEK Rozpr. České Ak. Frant. Jos. 1907 pp. 19-21.

Tropiaogynoplax gen. n. near Ochthopetin, fuscipes sp. n. Java, Enderlein Stettiner ent. Ztg 71 p. 141.

Udamocercia gen. n. für Leuctra antarctica Enderl., Enderlein Zool. Anz. 34 p. 418.

EPHEMEROPTERA or EPHE-MERIDAE.

Ephemerida, Plecoptera, KLAPÁLEK Süsswasserfauna Deutschlands, H. 8 pp. 1-32; 33-95.

Ueber die Metamorphose, LA BAUME SitzBer. Ges. natf. Freunde 1909 pp. 137-153.

Die Tracheenkiemen der Ephemeriden; Börner Zool. Anz. 33 pp. 806-823.

Morphologie der Kiemen der Larven, DÜRKEN Zool. Anz. 34 pp. 449-164.

Arthroplea gen. n. near Ecdyurus p. 17, congener p. 18 sp. n. Sweden, Bengtsson Lund Univ. Arsskr. 5 Afd. 2 No. 4.

Caenis? sjoestedti sp. n. Kilimandjaro, Ulmer Kilimandjaro-Meru Exp. 14 2 p. 53 fig. Centroptilum bicorne sp. n. Comoren, ULMER Reise Ostafrika 2 p. 366.

Chitonophora gen. n. near Ephemerella p. 6, aurivillii, mucronata, p. 8, spp. n., Sweden, Bengtsson Lund Univ. Ärsskr. 5 Afd. 2 No. 4.

Cloëon joergenseni, brunneum, spp. n. Mendoza, Petersen D. ent. Zs. 1909 p. 551.

Ecdyurus joernensis sp. n. Sweden, BENGTSSON Lund Univ. Ärsskr. 5 Afd. 2 No. 4 p. 19.

Ephemerata vulgata, DALGLEISH pp. 264-269 Zoologist 1909.

Ephemerella lactata sp. n. Sweden, Bengtsson Lund Univ. Arsskr. 5 Afd. 2 No. 4 p. 6.

Euphyurus gen. n. near Blasturus, albitarsis nom. n. for Ephemera hyalinata Zett. p.p. and vitreata Zett. Bengtsson p. 4 T.c.

Hagenulus turbinatus sp, n. Comoren. ULMER Reise Ostafrika 2 p. 367.

Heplagenia nigrescens sp. n. Carpathians, Dziedzielewicz Čas. České Spol. Entomolog. 1908 pp. 21-25.

Potameis gen. n. near Metamonius p. 13, elegans, minor, p. 15, spp. n., Scandinavia, Bengtsson Lund Univ. Ärsskr. 5 Afd. 2 No. 4.

Rhithrogena haarupi sp. n. Dänemark, Peters en D. ent. Zs. 1909 p. 555.

Siphlurella gen. n. near Siphlurus. thomsoni, p. 11, oblita p. 13, spp. n., Sweden, Bengtsson Lund Univ. Arsskr. 5 Afd. 2 No. 4.

Siphlurus zetterstedti p. 9, spinosus, latus, p. 10, spp. n., Sweden, Bengtsson T.c.

Sparrea gen. n. near Chirotonetes, norvegica sp. n. Norwegen, Petersen D. ent. Zs. 1909 p. 554.

ODONATA or PARANEUROP-TERA.

The genera and species of *Libellulinae* pt. i; RIS Coll. Selys 9 120 pp. and 1 pl.

Les Odonates; MARTIN Paris Bul. soc. nat. acclim. 55 pp. 431-434.

Odonala, Ris Dis Süsswasserfauna Deutschlands H. 9 pp. iv 67.

Beobachtungen über die Odonaten-Fauna bei Tvärminne (Finnisch), VÄLIKANGAS Medd Soc. Fauna Fenn. 35 p. 74 etc.

Odonaten des Donischen Gebietes, ZOGRAF Moskva Trd. Kruž. izsl. russ. prir. 4 pp. 94-96.

Abessinische Libellen, gesammelt von Dr. Eduard Rüppell; Ris Ber. Senckenb. Ges. 40 pp. 21-27.

Odonata, N.E. Africa and W. Asia, Förster Karlsruhe Verh. natw. Ver. 21 1907-08 Abh. p. 120.

The Odonata of the Mississippi Valley; Wilson Proc. U. S. nat. Mus. 36 No. 1692 pp. 653-671.

The composition and ecological relations of the odonate fauna of Mexico and Central America, Calvert Proc. Acad. Phildaelphia 60 pp. 460-491 tables and pl. xxvi.

Contributions to a knowledge of the Odonata of the Neotropical region, exclusive of Mexico and Contral America 3, Calvert Ann. Carnegie Mus. 6, pp. 73-280 pls. i-ix. We give below only the new forms of this paper.

Ponte des Odonates; PIERRE Rev. sci., Bourbon. 21 pp. 1-11 50-54; 22 6-13 29-44.

Cordulia metallica Eierablage; TORKA Zs. wiss. Insektenbiol. 5 p. 405.

Eiablage der Libellen; Uffeln Zs. wiss. Insektenbiol. 5 pp. 68-69.

Monograph of the larvae of European Odonata, Rousseau Ann. Biol. lacustre 3 pp. 300-366.

Observations on the development of Agrionidae; Balfour-Browne Proc. zool. Soc. 1909 pp. 253-285 & pls. xxxiii & xxxiv.

Hydrachnid parasites, Campion & Campion Entomologist 42 pp. 242-246.

Acanthagrion gracile ablutum p. 164, gracile ascendens p. 165, subspp. n., cuyabae pp. 166-167 with subspp., chararum p. 170 pl. v figs., chacoënse Brazil p. 172 fig. 90, chirihuanum p. 173 figs. 93 & 94, Brazil, spp. n., Calvert Ann. Carnegie Mus. 6.

Accaphila gen. n. Libellulidae p. 59, eudoxia sp. n. Ruwenzori p. 60, Kirby Tr. zool. Soc. 19. Aeschna meruensis sp. n. Meru, Sjöstedt Kilimandjaro-Meru Exp. 14 1 p. 32 pl. i f. 8 13 14 ii. f. 10 11.

Agrion armatum, vernale, pulchellum Farbenvarietät, (Russ.), Bartenev Moskva Trd. Kruž. izsl. russ. prir. 4 p. 72.—A. armatum, nymph, Petersen D. ent. Zs. 1909 p. 654.

Amphiaeschna perampla sp. n. Java and Borneo, Martin p. 115 Coll. Selys Aeschnines.

Amphiagrion andinum sp. n. Bolivia, Förster Wiesbaden Jahrb. Ver. Natk. 62 p. 231.—A. titicacae sp. n. Peru, p. 203 pl. vi figs. 118-120, Calvert Ann. Carnegie Mus. 6.

Archaeophlebia gen. n. for Neophlebia martini, RIS p. 55 Coll. Selys 9.

Argia fosteri Paraguay p. 128 pl. iv fig. 58, gerhardi Bolivia p. 130 fig. 60 with nigrior subsp. n. p. 132, kokama Peru p. 132 fig. 71, hasemani Brazil p. 137 fig. 59, tamoyo p. 139 fig. 73, smithiana p. 140 fig. 64, thisma p. 141 fig. 75, chapadae p. 146 fig. 76, botacudo p. 148 fig. 63, tupi p. 150 fig. 78, subapicalis p. 151 fig. 79, Brazil, iralai Paraguay p. 153 fig. 65, spp. n., CALVERT Ann. Carnegie Mus. 6.

Argiolestes gen. n., sidonia sp. n., MARTIN Firenze Boll. Soc. Entom. 40 pp. 195-207.

Austroaeschna atrata p. 95 & pl. iv f. 16, aspersa p. 96, Australia, intersedens Khasia hills p. 101 & f. 14, forcipata Queensland p. 102, spp. n., MARTIN Coll. Selys Aeschnines.

Austrocordulia gen. n. near Oxygastra, refracta sp. n. Endeavour River, TILLYARD Proc. Linn. Soc. N.S.W. 33 p. 744.

Austrogomphus melaleucae N.S.W., bifurcatus Atherton, comitatus Cooktown, manifestus, doddi, Kuranda, spp. n., Tillyard op. cit. 34 pp. 241–249.

Austrophya gen.'n. near Neophya, mystica sp. n. Kuranda, TILLYARD op. cit. 33 pp. 738-739.

Brechmorhoga praedatrix p. 250, heteronycha p. 251 pl. ix fig. 147, spp. n., Brazil, Calvert Ann. Carnegie Mus. 6

Calliaeschna lugubris, acutifrons, p. 110, masoni p. 111 & pl. iii f. 12, India, conspersa N. S. Wales p. 112, spp. r., Martin Coll. Selys Aeschnines. Callophlebia interposita Madagascar p. 68, mayanga Nossi-bé p. 69, spp. n., Ris Coll. Selys 9.

Calopteryx virgo Farben varietät, splendens var. n. tschaldirica, Bartenev Moskva Trd. Kruž. izsl. russ. prir. 4 p. 69.—C. splendens var. hyalina, Martin p. 213 Bull. Soc. ent. France 1909; nördl. Ural, Bartenef Bull. Soc. Oural. nat. 29 p. 144.

Chlorocnemis cyanura sp. n. Kamerun, Förster Wiesbaden Jahrb. Ver. Natk. 62 p. 234.

Cornacantha gen. n. p. 155 for cornuta Först., Martin Coll. Selys Aeschnines.

Diargia gen. n. near Argia p. 154, bicellulata sp. n. Brazil p. 155 pl. iv figs., CALVERT Ann. Carnegie Mus. 6.

Diphlebia lestoides life-history, TILLYARD Proc. Linn. Soc. N. S. Wales 34 pp. 370-383 figs.

Diplacina smaragdina fulgens p. 96, bolivari militaris p. 99, subspp. n., Ris Coll. Selys 9.

Dorocordulia errans sp. n. Brazil (?) p. 225 pl. vii fig. 131, CALVERT Ann. Carnegie Mus. 6.

Enallagma ovigerum sp. n. Colombia p. 159 pl. vi fig. 123, CALVERT T.c.

†E. mortuella sp. n. Colorado Miocene, Cockerell p. 172 Entomologist 42.

Eothemis gen. n. p. 70, zygoptera sp. n. W. Africa p. 71, Ris Coll. Selys 9.

Euthore jasciata inlactea subsp. n. Peru, Calvert Ann. Carnegie Mus. 6 p. 91.

Gomphoides hesperus Ecuador p. 215 pl. vii fig. 125, viridipleuris Paraguay p. 217 fig. 126, camposi Ecuador p. 219 fig. 217, spp. n., Calvert T.c.

Gomphus davidi var. orenburgi var. n., Voroncovskij Izv. Orenb. otd. russ. geogr. Otšč. 21 p. 119.—G. vulgatissimus nördl. Ural, Bartenef Bull. Soc. Oural. nat. 29 p. 143.

Gymnacantha usambarica sp. n. Usambara, Sjöstedt Kilimandjaro-Meru Exp. 14 1 p. 36 pl. ii f. 1.—G. adela p. 174, tenuis p. 175, auricularis p. 176, satyrus p. 177, S. America, saltatrix Tonkin p. 194, spp. n., Martin Coll. Selys Aeschnines.

Gynothemis gen. n. near Macrothemis, venipunctata sp. n. Brazil pl. x fig. 146, p. 256, Calvert Ann. Carnegie Mus. 6.

†Handlirschia gen. n., gelasii sp. n. Muschelkalk Deutschl., Reis Müschen Abh. Ak. Wiss. phys. Kl. 23 p. 659.

Heliaeschna uninervulata Borneo p. 163, gladiostyla Celebes p. 166, spp. n., Martin Cell. Selys Aeschnines.

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Heteragrion inca Peru p. 108 pl. iii fig. 38, flavidorsum Bolivia p. 111 pl. iii fig. 41, Calvert T.c.

Homothemis gen. n., meruensis sp. n. Meru, Sjöstedt Kilimandjaro-Meru Exp. 14 1 p. 12 pl. ii f. 14.

Hylaeothemis gen. n. p. 63, clementia sp. n. Bornco p. 64, and Tetrathemisfruhstorferi Karsch, Ris Coll. Selys 9.

Janoria pryeri sp. n. Japan, Martin p. 134 Coll. Selys Aeschnines.

Leptetrum quadrimaculatum Varietät (Russ.), Bartenev Moskva Trd. Kruž. izsl. russ. prir. 4 p. 67.

Leptobasis vacillans guianae and ccuadorica subspp. n., mammilaris sp. n. Brazil, p. 201 pl. vi figs. 112 etc., CALVERT Aun. Carnegie Mus. 6.

Lestes risi sp. n. Dutch New Guinea, WEELE Nova Guinea 9 p. 23.—L. scalaris Cuba p. 93 pl. i, bipupillatus p. 95 pls. i & ii, mediorufus p. 97 pl. i, paulistus p. 99 pls. i & ii, dichrostigmen p. 102 pls. i & ii, quadristriatus p. 104 pls. i & ii, Brazil, spp. n., CALVERT Ann. Carnegie Mus. 6.

Linaeschna gen. n., polli sp. n. Borneo, Martin p. 136 Coll. Selys Aeschnines.

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Micromacromia afra sp. n. Cameroons, Ris p. 75 Coll. Selys 9.

Mombagrion gen. n. near Ischnura, gracile sp. n. Usambara, Sjöstedt Kilimandjaro-Meru Exp. 14 1 p. 44 pl. ii f. 17.

Neocordulia longipollex sp. n. Costa Rica, Calvert Ent. News 20 p. 409 figs.

Neuraeschna harpya, claviforcipata pl. vi f. 24, p. 206, dentigera p. 207, rostrifera p. 208, spp. n. S. America, Martin Coll. Selys Aeschnines.

Oda gen. n. for Nannophlebia horni Kıüg., Rıs p. 61 Coll. Selys 9.

Onychogomphus supinus subsp. n. nigrotibialis Kilimandjaro, SJÖSTEDT Kilimandjaro-Meru Exp. 14 1 p. 23 pl. ii. f. 6.—O. capitatus sp. n. Celebes, Martin Firenze Boll. Soc. Entom. 40 pp. 195–207.

Ophiogomphus bellicosus sp. n. Orenburg, Voroncovskij Orenburg Izv. Orenb. otd. russ. geogr. Obšč. 21 p. 116-118.

Orthemis aequilibris p. 245, ambirufa, ambinigra, p. 246, spp. n., Brazil, CALVERT Ann. Carnogie Mus. 6.

Oxyagrion, characters, evanescens p. 179 pls. iii & viii, divaricatum p. 181 pl. iii figs. 47 & 48, hempeli p. 182 figs. 52 & 53, impunctatum p. 188 figs. 56 & 57, Brazil, spp. n., Calvert T.c.

Pentaphlebia gen. n. near Calopteryx p. 211, stahli sp. n. p. 213, Förster Wiesbaden Jahrb. Ver. Natk. 62.

Periaeschna gen. n., magdalena sp. n. Tonkin, Martin p. 157 Coll. Selys Aeschnines.

Peristicta aeneoviridis sp. n. Paraguay p. 211 pl. vi fig. 124, CALVERT Ann. Carnegie Mus. 6.

Petalura gigantea life history, TILL-YARD Proc. Linn. Soc. N. S. Wales 34 pp. 256-267 pl. xxiv.

Platacantha gen. n., foersteri sp. n. Malay Arch., and Triacanthagyna dirup-

ta Karsch., Martin p. 154 Coll, Selys Aeschnines.

Platycnemis pennipes Pall. var. n. cyaneostrisata Kärnten, Puschnia Carinthia 2 98 1908 pp. 87-101.

Podogomphus meruensis p. 25 pl. ii f. 4 Meru, kilimandjaricus p. 26, nigripes p. 27, speciosus p. 28 pl. ii f. 5 Kilimandjaro, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 14 1.

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Pseudocordulia gen. n. near Gomphomacromia, circularis sp. n. Kuranda, TILLYARD Proc. Linn. Soc. N.S.W. 33 pp. 742-3 figs.

Psilocnemis kervillei sp. n. Syria, MARTIN p. 214 Bull. Soc. ent. France 1909.

Pyrrhosoma nymphula, varr. fulvipes, melanotum and lincolniensis, CAMPION & CAMPION pp. 178-180 Entomologist 42.

†Reisia nom. n. for Handlirschia Reis, Handlirsch p. 81 Abh. Ges. Nürnberg 18.

Rhionaeschna gen. n. near Aeschna p. 220, maita sp. n. p. 221 Peru, Förster Wiesbaden Jahrb. Ver. Natk. 62.

Skiallagma simulacrum sp. n. Brazil p. 176 pl. v figs. 95 & 96, CALVERT Ann. Carnegie Mus. 6.

Somatochlora uchidai sp. n. Japan, Förster Wiesbaden Jahrb. Ver. Natk. 62 p. 233.—S.; spp., macrotona sp. n. Minnesota p. 78, WILLIAMSON Ent. News 20.—S. metallica, Speyer pp. 227-233 Ent. Mag. 45.

Staurophlebia gigantula sp. n. Amazons, Martin p. 211 and pl. vi f. 23 Coll. Selys Aeschnines.

Subaeschna gen. n. p. 152, francesca sp. n. Surinam, p. 153, Martin T.c.

Synthemis olivei Cooktown, claviculata Kuranda, spp. n., TILLYARD Proc. Linn. Soc. 33 pp. 747-749.

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Tricanthagyna needhami sp. n. Florida, Martin p. 149 Coll. Selys Aeschnines.

†Typus (non Tupus) Sellards, Sellards p. 151 Amer. J. Sci. 1909.

Uracis ovipositrix pl. ix fig. 145, ovata p. 227, spp. n., Brazil, CALVERT Ann. Carnegie Mus. 6.

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and other extinct Orders.

Archaeacriditis gen. n. bruesi sp. n. Stéphanien de Commentry, p. 39, elegantissima sp. n. Stéphanien de Commentry, MEUNIER Bul. Muséum Paris 1909 p. 45 & 75.

Archaeocompsoneura gen. n. Platypteridae, superba sp. n. Commentry Stéphanien, MEUNIER p. 139 Ann. Soc. sci. Bruxelles 33.—A. superba sp. n. Stéphanien de Commentry, MEUNIER Bul. Muséum Paris 1909 p. 41 fg. 1.

Artinska gen. n. Lemmatophoridae p. 163, clara, medialis, gracilis, pecta, p. 165, major, extensa, p. 166, spp. n. Kansas Permian, Sellards Amer. J. Sci. 1909.

Atava gen. n. Lepiidae, ovata sp. n. Kansas Permian p. 157 f. 3, SELLARDS T.c.

Delopterum gen. n. Protorthoptera Delopteridae fam. n., minutum, elongatum, p. 168 f. 20, latum p. 169 f. 17, spp. n., Kansas Permian, Sellards T.c.

Esca nom. n. for Therates Sellards, SELLARDS p. 151 T.c.

Espira gen. n. Probnisidae, obscura sp. n. Kansas Permian p. 160 f. 13, Sellards T.c. Estadia gen. n. Lemmatophoridae, elongata, arcuata, tenuis, spp. n. Kansas Permian, p. 166, Sellards T.c.

Gilsonia gen. n., titana sp. n., p. 37 figs. Stéphanien de Commentry, Meu-NIER Bul. Muséum Paris 1909.

Homalophlebia perrieri sp. n. Commentry Stéphanien, Meunier p. 140 Ann. Soc. sci. Bruxelles 33.—H. perrieri sp. n. Stéphanien de Commentry, Meunier Bul. Muséum Paris 1909 p. 47.

Horates gen. n. Liomopteridae, elongatus sp. n. Kansas Permian p. 158 f. 2, Sellards Amer. J. Sci. 1909.

Lecopterum gen. n. Probnisidae, delicosum sp. n. Kansas Permian p. 161, SELLARDS T.c.

Lecorium gen. n. Lemmatophoridae, elongatum sp. n. Kansas Permian p. 167 f. 26, Sellards T.c.

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Lisca gen. n. Lemmatophoridae, minuta sp. n. Kansas Permian p. 163 f. 21, SELLARDS T.c.

Mecus nom. n. for Scopus Sellards, SELLARD p. 151 T.c.

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Stemma gen. n. Ortadae, elegans, extensa, spp. n. Kansas Permian, p. 168, SELLARDS T.C.

Stenodictya gaudryi sp. n. Commentry Stephanien, Meunier p. 139 Ann. Soc. sci. Bruxelles 33.—S. gaudryi sp. n. Stéphanien de Commentry, Meunier Bul. Muséum Paris 1909 p. 42 fig. 2.

Stinus gen. n., Probnisidae, brevicubitalis sp. n. Kansas Permian p. 161 f. 9, SELLARDS T.c.

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Urba gen. n. Delopteridae, punctata sp. n. Kansas Permian, p. 169, Sel-LARDS T.c.

ORTHOPTERA.

FORFICULIDAE.

Classification of the Dermaptera; BURR D. ent. Zs. 1909 pp. 320-328 and pl. iv.

Ueber Dermapteren, 6. Aufsatz, zur Biologie europäischer Ohrwürmer; Verноегг Biol. Centralbl. 29 pp. 578–586 605–616.

Anechura calciatii sp. n. Kashmir, Borelli Torino Boll. Musei zool. anat. 24 No. 603. Anisolabis andreinii Adi Ugri, tellinii Eritrea, spp. n., Borelli Firenze Boll. Soc. Entom. 40 pp. 3-9.—A. eteronoma, aporonama, spp. n., Hawaii, Borelli Portici Boll. Lab. zool. 3 p. 314-328.

Archidux gen. n. near Neolobophora p. 123, adolfi sp. n. Centr. Africa p. 124, Burr Ann. Nat. Hist. 4.

Arixenia gen. n., esau sp. n. Borneo on bat, p. 313 pls. xvi-xviii, forming Arixeniidae fam. n. p. 323, JORDAN Nov. Zool. 16.

Borellia gen. n. for Anisolabis part, Burr p. 325 D. ent. zs. 1909.

Brachylabis fernandezi, montana, spp. n. Costa Rica, Borelli Torino Boll. Musei zool. anat. 24 N. 611.—B. cincticollis Gerst. to Psalis, Burr p. 255 Ann. Nat. Hist. 3.

Chaetospania paederina Gerst. (as Forficula) = (longiana Borg = escalerae Burr), Burr p. 256 Ann. Nat. Hist. 3,

Chelidura acanthopygia in Sweden, Tullgren Entomol. Tidskr. 29 p. 140.

Chelisoches dilyanus sp. n. Samoa, HOLDHAUS Wien Denkschr. Ak. 84 pp. 537-562.

Dendroiketes gen. n. for Apachys corticinus, Burr p. 321 D. ent. Zs. 1909.

Elaunon erythrocephalus = (Chelisoches pulchellus Gerst.), Burr p. 257 Ann. Hat. Hist. 3.

Eparchus cruentatus sp. n. Lombok, Burr p. 115 op. cit. 4.

Esphalmeninae nom. n. for Gonolabidae Verh., Burr p. 250 op. cit. 3.

Esphalmenus gen. n. type Forficula lativentris Phil., Burr p. 251 T.c.

Forficula riffensis Marocco p. 119, ignota S. Europe p. 120, spp. n., Burr Ann. Nat. Hist. 4.—F. auricularia abnormal forceps, Lucas p. 194 Entomologist 42.—F. lesnei, habitat etc., Finor pp. 152-154 Bull. Soc. ent. France 1909.

Hamaxus papuensis sp. n. Dutch New Guinea, Burr Nova Guinea 9 p. 16.

Homotages gen. n. for Anechura feae, Burr p. 327 D. ent. Zs. 1909.

Hypurgus kuhlgatzi sp. n. W. Africa, Burr p. 116 Ann. Nat. Hist. 4.

Karschiella neavei sp. n. Congo, Burr p. 96 Ann. Soc. ent. Belgique 53. Labia borelli sp. n. Victoria-Nyanza, Burr Firenze Boll. Soc. Eutom. 40 pp. 175-181.—L. orae-divitis, cyanescens, spp. n. Costa Rica, Borelli Torino Boll. Musei zool. anat. 24 N. 611.—L. rechingeri sp. n. Samoa, Holdhaus Wien Denkschr. Ak. 84 pp. 557-562.—L. nigrella Dubr. = (myrmeca Burr = fasciata Borm.), Burr p. 127 Ann. Nat. Hist. 4.

Labidura figinii sp. n. Eritrea, Burr Firenze Boll. Soc. Entom. 4 pp. 175-181.

Lithinus gen. n. for Pseudochelidura analis, Burr p. 327 D. cnt. Zs. 1909.

Mixocosmia gen. n., tristani sp. n. Costa Rica, Borelli 'Iorino Boll. Musei zool. anat. 24 N. 611.

Opisthocosmia nieuwenhiusi sp. n. Borneo, p. 118, forcipata Haan = (crroris Burr) p. 127, Burr Ann. Nat. Hist. 4.

Paracosmia gen. n., silvestrii, dugesi, spp. n., Messico, Borelli Portici Boll. Lab. zool. 3 p. 314-328.

Proreus elegans $\mathcal{P} = (Apterygida\ lingua\ Burr)$, Burr p. 256 Ann. Nat. Hist. 3.—
P. fuscipennis Haan = (Spongiphora rubriceps Burr), Burr p. 128 op. eit. 4.

Psalis gagatina Kl. = (Carcinophora robusta Seudd.), Burr p. 126 T.c.—
P. cincticollis Gerst. = (picina Kirb.),
Burr p. 113 T.c.

Pseudolabis burri sp. n. Kashmir, Bor-ELLI Torino Boll. Musei zool. anat. 24 N. 603.

Pyragra brunnea sp. n. Peru, Burr p. 254 Ann. Nat. Hist. 3.

Sparatta lobata sp. n. Costa Rica, Borelli Torino Boll. Musci zool. anat. 24 N. 611.

Sphingolabis; history and synonymy; Burr pp. 125 & 126 Ann. Nat. Hist. 4.

Spongiphora dissimilis sp. n. Costa Rica, Borelli Torino Boll. Musei 2001. anat. 24 N. 611.—S. 4-maculata Stål = (Forficula protensa Gerst.), Burr p. 256 Ann. Nat. Hist. 3.—S. schubotzi Centr. Africa p. 121, gestroi W. Africa p. 122, spp. n., Burr op. eit. 4.—S. nitidipennis = (Chactospania juppiter Burr), insignis Stål = (geayi Burr), Burr p. 127 T.c.

Tristanella gen. n., tuberculata, biaculeata, spp. n. Costa Rica, Borelli Torino, Boll. Musci zool. anat. 24 N. 611,

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HEMIMERIDAE.

Hemimerus; Insekt Plazenta; HEY-MONS Verh. D. zool. Ges. 19 pp. 97-107.

Hemimerus talpoides and hanseni, characters and distribution, Carpenter pp. 254-257 and pl. iv Ent. Mag. 45.— H. talpoides anatomy, Jordan pp. 327-330 pl. xviii Nov. Zool. 16.

BLATTIDAE.

Revision of the old-world Blattinae belonging to the Polyzosteria group; SHELFORD pp. 253-310 Tr. e.t. Soc. London 1909.

Recherches anatomiques, histologiques et physiologiques sur les organes appendiculaires de l'appareil reproducteur femelle; BORDAS Ann. sci. nat. Zool. 9 pp. 71-121.

Structure histologique de la spermathèque des Blattes, Bordas Paris C. R. Acad sci. 148 pp. 520-522.

Periplaneta orientalis, fonctions physiologiques des glandes arborescentes des femelles, Bordas Paris C. R. soc. biol. 65 1908 pp. 533-535; glandes caleigènes annexées à l'appareil génital femelle, Bordas Paris Bul. soc. zool. 34 pp. 22-24.

Les cristaux de la Blatte, HALLEZ Paris C. R. Acad. sci. 148 pp. 317-318.

The nuclear components of the sex cells; Morse Arch. Zellforschg. 3 pp. 483-520 3 Taf.

(Blattes myrmécophiles; Bolivar Mitt. Schweis. Entomol. Ges. 11 1905 pp. 134-141.)

Anamesia walkeri sp. n. N. S. Wales, Shelford p. 301 Tr. ent. Soc. London-1909.

Anaplecta biafrae sp. n. Spanish Guinea, Shelford p. 477 Mem. Soc. cspan. 1.—A. bolivari sp. n. Kamerun, Shelford D. ent. Zs. 1909 p. 611.

Anaplecloidea modesta Ceylon, notata Annam, spp. n., Shelford 1909 p. 611 T.c.

Anchoblatta gen. n. near Blatta, peruana sp. n. Peru, Shelford p. 620 T.c.

Anarcolaria gen. n. near Arcolaria, bilivari sp. n. Kamerun, Shelford p. 662 T.c.

Areolaria sumatrana sp. n. Sumatra, Shelford p. 621 T.c.

Blatta montana sp. n. Ruwenzori, Kirby p. 63 Tr. zool. Soc. 19.

Ceratinoptera ensifera sp. n. Australia, Shelford Fauna Südwest Australiens 2 Lfg 9 p. 130.—C. shelfordi nom. n. for castanea Shelf., CAUDELL Proc. Ent. Soc. Washington 11 p. 112.

Cosmozosteria froggatti p. 295, gloriosa p. 297, spp. n., Australia, Shelford Tr. ent. Soc. London 1909.

Cutilia melanesiae sp. n. Torres Straits, Shelford p. 29 T.c.

Derocalymma gigantea sp. n. O-Afrika, Shelford D. ent. Zs. 1909 p.

Deropeltis brevipennis sp. n. Erythraea, Shelford p. 619 T.c.

Desmozosteria gen. n. near Zonioplaca, michaelseni, rufescens, Australia spp. n., Shelford Fauna Sudwest Australiens 2 Lfg. 9 p. 139.—D. grossepunctata sp. n. Australia, Shelford p. 303 Tr. ent. Soc. London 1909.

Dyscologamia wollastoni sp. n. Ruwenzori, Kirby p. 63 Tr. zool. Soc. 19.

Epilampra annandalei sp. n. India, Shelford Rec. Ind. Mus. Caleutta 3 p. 127.—E. structilis sp. n., Sumatra, Rehn Bull. Amer. Mus. 26 p. 178 fig. 1.

Euzosteria gen. n. type Polyzosteria subverrucosa White, Shelford p. 262 Tr. ent. Soc. London 1909.

Evea gen. n. near Paraplecta, kalkmanni sp. n. Kamerun, Shelford D. ent. Zs. 1909 pp. 622-623.

Gyna castanea p. 317, peringueyi p. 318, sculpturata, aetola, p. 319, incommoda p. 321, hyalina p. 324, spp. n. Africa, Shelford Tr. ent. Soc. London 1909.

Gynopeltis neavei sp. n. Rhodesia Shelford p. 326 T.e.

Homoeogamia subdiaphana mohavensis subsp. n. California p. 415, Rehn and Hebard Proe. Acad. Philad. 61.

Ipisoma coleoptratum 3, Shelford p. 480 Mem. Soc. espan. 1.

Ischnoptera escalerae sp. n. Spanish Guinea, Shelford p. 478 T.e.

†1. brunneri sp. n. Miocene Colorado, Cockerell Bull. Amer. Mus. 26 p. 76.

Isoniscus scaber sp. n. Spanish Guinea, Shelford p. 481 Mem. Soc. espan. 1.

Karnyia gen. n. für Hyposphaeria burri Karny, Shelford D. ent. Zs. 1909 p. 623.

Loboptera maculicornis sp. n. Samoa, HOLDHAUS Wien Denkschr. Ak. 84 pp. 537-562.

Methana magna p. 307, hosei p. 309, spp. n. Borneo, Shelford Tr. ent. Soc. London 1909.

Oxyhaloa minima sp. n. Spanish Guinea, Shelford p. 480 Mem. Soc. espan. 1.

†Palaeoblattina bouvieri sp. n. Stéphanien de Commentry, Meunier Bul. Muséum Paris 1909 p. 49.

Paramethana buyssoni sp. n. O-Afrika, Shelford D. ent. Zs. 1909 p. 618.

†Pedinoblatta gen. n. near Hongaya p. 80, stromeri sp. n. Trias Al dorf p. 81, Handlirsch Abh. Ges. Nürnberg 18.

Periplaneta stygia sp. n. Kamerun, Shelford D. ent. Zs. 1909 p. 619.

Phenacisma semialata sp. n. Rhodesia, Shelford p. 325 Tr. ent. Soc. London 1909.

Phyllodromia phryne, bolivari, Kamerun, denticulata Peru, inconspicua Brasilia, maculiventris, flora, peruana, Peru, dido Bolivia, spp. n., Shelford D. ent. Zs. 1909 pp. 613-616.

Platyzosteria rusceps p. 134, curiosa p. 135, morosa, conjuncta, p. 136, variegata p. 137, hartmeyeri p. 138, Australia spp. n., Shelford Fauna Südwest Australiens 2 Lfg. 9.—P. ferox p. 273, perplexa p. 277, ruscepp. 278, spenceri p. 284, aposematica p. 288, spp. n. Australia and Tasmania, Shelford Tr. ent. Soc. London 1909.

Polyzosteria viridissima sp. n. N. S. Wales, Shelford p. 262 T.c.

Pronauphoeta gen. n. near Nauphoeta, nigra sp. n. Kamerun, Shelford D. ent. Zs. 1909 p. 621.

†Protoblattina gen. n., bouvieri sp. n. f 7 Stéphanien de Commentry, Meu-Nier p. 48 Bul. Muséum Paris 1909.

Pseudogyna gen. n. near Gyna, intermedia sp. n. Rhodesia, Shelford p. 325 Tr. ent. Soc. London 1909, Pseudophyllodromia boliviensis Bolivia, albomaculata Peru, spp. n., Shelford D. ent. Zs. 1909 pp. 617-618.

Pseudothyrsocera bicolor sp. n. Borneo, Shelford p. 612 T.c.

Scabina gen. n. for Pelmatosilpha antipoda Kirby, Shelford p. 305 Tr. ent. Soc. London 1909.

†Stephanoblatta fayoli sp. n., LERICHE Ann. Soc. gcol. 37 p. 38 pl. i.

Stylopyga michaelseni sp. n. Australia, Suelford Fauna Sudwest Australiens 2 Lfg. 9 pp. 143-149.

Temnopteryx desertee sp. n. Texas, Rehn and Hebard Proc. Acad. Philad. p. 116 fig. 1.

Theganopteryx fantastica sp. n. Spanish Guinea, Shelford p. 476 Mem. Soc. espan. 1.

Zonioploca pallida sp. n. Australia, Shelford Fauna Sidwest Australians 2 Lfg 9 pp. 143-149.

PHASMIDAE.

†Aedaeophasma acadica sp. n. Lower Cordaite shales New Brunswick, MATTHEW p. 117 pl. i f. 1 Trans. R. Soc. Canada iii 3 sect. iv.

†Archaeophasma gen. n., grandis sp. n. Lower Cordaite shales New Brunswick, Matthew p. 119 pl. i f. 2 T.c.

Aplopus mayeri, inheritance and protective behavior, pp. 239-245 ff. 1-3, STOCKARD Biol. Bull. 16 pp. 239-245 figs. 1-3.

Bacillus gallicus, capture du male, Bérenguier Paris Bul. soc. ent. 1909 pp. 73-75 av. fig.; Paris Bull. soc. ent. 1909 p. 234.

Ceratites subgen. n. of Diapheromera, type D. covillea, Rehn and Hebard Proc. Acad. Philad. 61 p. 126.

Diapheromera; key p. 125, covillece sp. n. Texas p. 126 figs., Rehn and Hebard Proc. Acad. Philad. 61, vide ctian Ceratites.—D. Jemorata, follicular epithclium from the ovary, Marshall, Arch. Zellforschg 3 pp. 627-643 2 Taf.— D. (Ceratites) tamaulipensis sp. n. Mexico, Rehn Ent. News 20 p. 212 figs.

Dixippus morosus, PODJAPOLSKY pp. 277–281 Rev. russe Ent. 8; Wachstum der Larven, Verhalten, Futter in der Gefangenschaft, PODJAFOLISKY RCV. russ. ent. 8 pp. 277-281; Meiss-Ner Zs. wiss. Insektenbiol. 5 pp. 14-21, 55-61, 87-95; Meissner Intern. ent. Zs. 3 pp. 44, 50-51.

Gratidia congoënsis sp. n. Kongo, Sjöstedt Entomol. Tidskr. 30 p. 269 fig.—G. massaica p. 80 fig. 1, graminis, sicca, p. 81, cylindrica p. 82, albida p. 82 fig. 2, kibonotensis p. 83 fig. 3, postspinosa p. 84 fig. 4, tenuis p. 85 fig. 5, polita p. 86, flavescens p. 87, furcifer p. 87 fig. 7, montivaga p. 88 fig. 8, silvapluvialis p. 88 fig. 9, excisa p. 89, spp. n., Sjöstedt Kilimandjaro Meru Exp. 17.

Pachymorpha meruensis sp. n., Sjöstedt p. 79 T.c.

Phasma graveolens King = Anisomorpha buprestoides Stoll, CAUDELL Proc. Ent. Soc. Washington 11 p. 111.

Phyllium crurifolium, natural history, Leigh Proc. Zool. Soc. 1909 pp. 103-113 pl. xxxviii.

Pseudosermyle tenuis sp. n. Texas, Rehn and Hebard Proc. Acad. Philad. 61 p. 121 fig. 2-4.

Xylica kilimandjarica sp. n., Sjö-Stedt Kilimandjaro-Meru. Exp. 17 p. 78.

MANTIDAE.

Mantodea; geographische Verbreitung; Werner Wien Verh. Zool Bot. Ges. 59 pp. 70-81.

Mantis religiosa, Nordgrenze des Verbreitungsgebietes, Zacher Zs. wiss. Insektenbiol. 5 pp. 134-135.

Some oothers of *Mantidae*; Shelford pp. 509-514 and pl. xvii Tr. ent. Soc. London 1909.

Aufzucht, Farbwechsel und Regeneration der Gottesanbeterinnen. (Mantidae), iii; Temperatur- und Vererbungsversuche, Przibram Arch. EntwMech. 28 pp. 561-628 3 Taf.

Un reptile chassé et tué par un insecte, Mourgue Feuille jeunes natural 39 p. 87.

Citharomantis zen. n., near Parairidopteryx p. 184, falcata sp. n. Sumatra p. 185 figs. 8-9, Rehn Bull. Amer. Mus. 26. Danuria kilimandjarica sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 3 p. 72 pl. iv fig. 4 4A-B.

Entella meruensis, kilimandjarica, p. 56, flavicornis p. 57, fuscipes p. 58, usambarica p. 58 pl. iv fig. 8, spp. n., SJÖSTEDT T.c.

Galinthias meruensis p. 69 pl. iv fig. 7, usambarica p. 50 pl. iv fig. 6, spp. n., Sjöstedt T.c.

Gonypeta costalis sp. n. Congo, Werner p. 131 Ann. Soc. ent. Belgique 53.

Hierodula athene sp. n. Sumatra, Rehn Bull. Amer. Mus. 26 p. 180 figs. 2-4.

Hoplocorypha nana sp. n., SJÖSTEDT Kilimandjaro-Meru Exp. 17 3 p. 62.

Ischnomantis usambarica sp. n. Sjöstedt p. 65 pl. iv fig. 1. T.c.

Miomantis affinis p. 63, kilimandjarica, planivertex, p. 64, spp. n., Sjöstedt T.c.

Oxypilus meruensis sp. n., SJÖSTEDT p. 67 pl. iv fig. S T.c.

Paracilnia gen. n., neavei sp. n. Congo, Werner p. 131 Ann. Soc. ent. Belgique 53.

Stagmomantis californica sp. n. California p. 416 ff. 1 & 2, Rehn and Hebard Proc. Acad. Philad. 61.

Tarachodes nigricoxa sp. n. Deutsch Ost Afrika, Sjöstedt Entomol. Tidskr. 30 p. 270.—T. usambarica sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 3 p. 52 pl. iv fig. 5 5A.

Toxodera pluto sp. n. Sumatra, Rehn Bull. Amer. Mus. 26 p. 182 fig. 5-7.

GRYLLIDAE.

Myrmecophila; Schimmer Zs. wiss. Zool. 93 pp. 409-534 3 Taf.

Anaxipha kilimandjarica p. 120 pl. v fig. 1-2, straminea p. 121 pl. v fig. 16, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 5.

Arachnocephalus meruensis sp. n., Sjöstedt p. 111 T.c.

Callogryllus gen. n. near Gryllodes, kilimandjaricus sp. n., Sjöstedt p. 105 pl. v fig. 9 T.c.

Cavernacris gen. n. near Voeltzkovia p. 116. microps p. 117 pl. v fig. 14 14A sp. n., Sjöstedt T.c. Crystallomorpha gen. n., near Hemiphonus p. 209, sumatrensis sp. n. Sumatra p. 209 figs. 30-31, Rehn Bull. Amer. Mus. 26.

Cycloptiloides p. 109 gen. n. near Cycloptilum, meruensis p. 110 pl. v figs. 15 a b sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 5.

Cycloptilum squamosum sp. n., DAVIS J. Ent. Soc. New York 17 p. 187.

Cyrtoxipha vadschaggae sp. n., SJö-STEDT Kilimandjaro-Meru Exp. 17 5 p. 121.

Ectatoderus kilimandjaricus p. 107 pl. v fig. 3-4, rujoniyer p. 108 pl. v fig. 6, ochraceus p. 108 pl. v. fig. 5 5a, bimaculatus p. 109 pl. v fig. 7 7a, spp. n., Sjöstedt T.c.

Gryllodes massaicus p. 101, superciliosus p. 103, spp. n., Sjöstedt T.c.— G. insularis sp. n. Samoa, Holdhaus Wien Denkschr. Ak. 84 pp. 537-562.

Gryllotal pa vulgaris, Entwicklungsgeschichte des Darmdrüsenblattes, Nus-BAUM und FULINSKI Zs. wiss. Zool. pp. 306-348 2 Taf.

Gryllus meruensis sp. n., SJÖSTEDT Kilimandjaro-Meru Exp. 175 p. 98.—G. armatus p. 173, alogus p. 174, measurements, Rehn and Hebard Proc. Acad. Philadelphia 61.—G. campestris J. Kastration und ihre Folgeerscheinungen, REGEN Zool. Anz. 34 pp. 477–478.

Kilimagryllus gen. n. near Calyptotrypus p. 122, ochraceus p. 123 pl. v fig. 8 sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 5.

Montigryllus gen. n. p. 111 near Ectecous, silvieptuvialis p. 112 pl. v fig. 10 11, affinis p. 113 pl. v fig. 12, spp. n., Sjöstedt T.c.

Nemobius heydeni var. n. rhenanus, Krauss D. ent. Zs. 1909 pp. 137-148.— N. massaicus p. 97, niveipalpus p. 98, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 5.—N. grandis sp. n. Samoa, Holdhaus Wien Denkschr. Ak. 84 pp. 537-562.

Occanthus fasciatus, courting, Jensen p. 25 cut Canad. Eat. 41.—O. niveus, oviposition p. 113, quadripunctatus a var. of nigricornis p. 114, Houghton Canad. Eat. 41.—O. spp., mating habits, Houghton Eat. News pp. 274-279.—O. quadripunctatus oviposition, Jensen Eat. News 20 p. 25 pl. ii.

Opilionacris gen. n. near Arachnopsis p. 115, kilimandjarica p. 116 sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 5.

Orocharis latifrons sp. n. British Honduras, Reun Ent. News 20 p. 211 1 f.

Paragryllodes gen. n. Occanthidarum, borgerti sp. n. Amani, Karny Zool. Jahrb. Syst. 27 p. 478.

Phacophilacris usambarica sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 5 p. 113.

Speluncacris gen. n. p. 114 near Phaeophilacris, lucifuga p. 115 pl. v fig. 13-13a sp. n., Sjöstedt T.c.

Tridactylus usambaricus sp. n., Sjöstedt p. 96 T.c.

Trigonidium massaicum sp. n., Sjöstedt p. 119 T.c.

LOCUSTIDAE.

Recensio Conocephalidarum in A synonymic catalogue of Orthoptera by W. F. Kirby contentarum, Karny Wien Verh. ZoolBot. Ges. 59 pp. 23-28

Aglaothorax sierranus sp. n. California p. 476 ff. 15-19, Rehn and Hebard Proc. Acad. Philad. 61.

Agroecia aberrans sp. n. Sumatra, Rehn Bull. Amer. Mus. 26 p. 204 fig. 26.

Amblycorypha huasteca, Reiin & Hebard Proc. Acad. Philadelphia 61 p. 168.

Anabropsis rehni sp. n. Congo, GRIFFINI p. 24 Ann. Soc. ent. Belgique 53.

Anthracites montium p. 140 pl. vi figs. 11 12, kilimandjaricus p. 141 pl. vi figs. 13-15, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6.

Arnobia pilipes, д appendages, Reнn Bull. Amer. Mus. 26 p. 192.

Ateloplus macroscelus sp. n. Texas' REHN & HEBARD Proc. Acad. Philadelphia 61 p. 169 fig. 17.

Barbitistes sp., Kicferninsekt, Torka Zs. wiss. Insektenbiol. 5 pp. 217-220.— B. constrictus und Leptophyes alboritata, BAER Zs. wiss. Insektenbiol. 5 pp. 136-137

Camptonolus swinhoei sp. n. Australia and Tasmania, GRIFFINI Atti Soc. ital. sc. nat. 47 fasc. 4 pp. 300-338.

Cymatomera orientalis sp. n. Sumatra, REHN Bull. Amer. Mus. 26 p. 200 figs. 22-23.

Dibelona e Gryllacris americane, GRIFFINI Redia 5 pp. 186-192.

Diestrammena marmorata in Mitteleuropa, Wünn Zs. wiss. Insektenbiol. 5 pp. 82-87 113-120 163-166.

Dolichopoda euxina, Lebensbedingungen und Verbreitung, Šugurov Tiflis Izv. Kavk. otd. russ. geogr. Obšč. 19 p. 270.

Dysmorpha obesa &, Griffini p. 105 Ent. Ztg. Wien 28.

Ephippigera; biologie des Ephippigères; Pièron Feuille jeunes natural. 39 pp. 142-143.

Eremus nigrifacies p. 145, kibonotensis, kilimandjaricus, falcifer, p. 146, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6.

Eurycorypha meruensis sp. n., Sjöstedt p. 134 pl. vi fig. 6 Т.с.

Gampsocleis; spezifische Merkmale p. 333, glabra Gouv. Tobolsk p. 335, sowinskyi Baikalsee p. 337, caudata Jakutsk p. 338, kraussi Gouv. Per and Sibirien p. 339, spp. n., kraussi baicalensis subsp. n. p. 340, christiniei sp. n. Südussuri-Gebiet p. 343, ADELUNG St. Peterburg Ann. mus. zool. 14.

Gelatopoiidion gen. n. near Gelatopoia, conjungens sp. n. Sumatra, Zacher Zool. Anz. 34 p. 373.

Gryllacridae di varie collezioni, GRIFFINI Torino Boll. Musei zool. anat. 24 pp. 1-17.

Gryllacris; da Stâl, revisione e osservazioni, Griffini Atti Soc. ital. sc. nat. 48 pp. 70–102.—Revisione di alcuni tipi di Pictet et Saussure Griffini Monitore zool. ital. 20 pp. 105–113.—Revisione di alcuni tipi descritti da Brunner, Griffini pp. 186–192 T.c.—Alcune specie, Griffini Atti Soc. ital. sc. nat. 47 pp. 173–184.—G. meruensis p. 144, kilimandjarica p. 145, spp. n., SJÖSTEDT Kilimandjaro-Meru Exp. 17 6.—G. lemur sp. n. Madagaskar p. 68, postica Walk. p. 66, Griffini Ent. Ztg Wien 28.—G. dyak Borneo, mauritiana Mauritius, spp. n., Griffini Atti Soc. ital. sc. nat. 47 fasc. 4 pp. 300–338.—G. dimidiata subsp. n. capucina p. 141, ligata subspp. n. divisa and

humeralis, pp. 144-146, gestri p. 147, purarica p. 150, diluta p. 152, spp. n.
Nova Guinea, Griffini Zool. Jahrb.
Jena Syst. 28.—G. larvata sp. n.
Sumatra, Rehn Bull. Amer. Mus.
26 p. 207 fig. 27–29.—G. doriae, d'albertisi, spp. n., navicula subsp. n. novae guineae, Nova Guinea, Griffini Soe. entomol. 24 pp. 49-51.—G. hor-váthi sp. n., with subsp. decolor, hyalina, var. n. simbangica, Nova Guinea, kuthyi Sumatra sp. n., punctipennis var. n. confluens Amboina and erimae N. Guinea, hantusi Borneo, G. (Papuogryllacris) birói, vidua, Nova Guinea, spp. n., GRIFFINI Ann. Mus. Hungar. 7 pp. 307-336.—G. longstaffi Jamaica p. 367, sancti-vincentii St. Vincent p. 370, spp. n., Griffini Ann. Nat. Hist. 3.—G. bedoti sp. n. Madagascar p. 381, basaliatrata nom. n. (=atrata Brunner 1888 = basalis Kirby 1906) Indes orientales p. 384, pardalina Gerst. Indes orientales p. 389, mannae sp. n. Madagasear p. 391, atriceps Madagasear p. 394, san-Brunner guinolenta Brunner Madagasear p. 397, auriculata Krauss Java p. 399, abluta Br. Guatemala Mexique p. 401, picta Br. Amérique centrale p. 402; GRIFFINI Rev. Suisse Zool. 17.—G. kirbyi, giulianettii, spp. n., Nova Guinea, GRIFFINI Portici Boll. Lab. zool. 3 pp. 207-215.-G. scripta, addenda, Navás Bol. Soc. Aragon 8 p. 103.-G. certa nom. n. for incerta Tepper, CAUDELL Proc. Ent. Soc. Washington 11 p. 114.—G. laeta var. e exemplare anomalo, GRIFFINI Torino Boll. Musei zool, anat. 24 N. 597 pp. 1-14 1 fig.—*G. rubrinervosa*, GRIF-FINI Redia **6** pp. 183-186 1 fig.

†G. mutilata sp. n. Colorado Miocene, Cockerell Amer. J. Sci. 28 p. 284 fig. 2.

Habetia; KARNY Wien Verh. Zool-Bot. Ges. 59 pp. 23-28.

Hexacentrus karnyi sp. n. Tanganyika, Griffini p. 21 Ann. Soc. ent. Belgique 53.

Holochlora prasina sp. n. Sumatra, REHN Bull. Amer. Mus. 26 p. 193 fig. 16-17.

Homocoryphus lemairei sp. n. Tanganyika p. 18, assimilis subsp. persimilis p. 20, Griffini Ann. Soc. ent. Belgique 53.—H. harti nom. n. für diversus, Karny Wien Verh. ZoolBot. Ges. 59 pp. 23-28.

Hormilia elegans, REHN & НЕВАВО Proe. Aead. Philadelphia 61 p. 167.

Idiarthron atrispinus, habits, CAUDELL Proc. Ent. Soc. Washington 11 p. 40.

Idionotus brevipes p. 209 pl. vii f. 3, WALKER Canad. Ent. 41.

Isophya adelungi sp. n. p. 57, acuminata p. 59, Kaukasus, Stschelkanowzeff Vaišava Izv. Univ. 1909 6-8.

Isopsera scalaris sp. n. Sumatra, REHN Bull. Amer. Mus. 26 p. 195 fig. 18.

Lanista and Plastocorypha not distinct, GRIFFINI p. 15 Ann. Soc. ent. Belgique 53.

Licola Walk. (=Bugajus Brunner)= Sia Giebel 1861, L. couloni Saussure synonym of Sia ferox Giebel, CAUDELL p. 114 Proc. Ent. Soc. Washington 11.

Meconema varium and galls, THURNALL p. 38 Entomologist 42.

Miogryllus saussurei New Jersey, notes on hearing, Davis Ent. News 20 p. 138.

Monticolaria gen. n. near Leptophyes, meruensis p. 128 pl. vi fig. 1-1d, kilimandjarica p. 129 pl. vi fig. 2 & 2a, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6.

Mortoniellus gen. n. Tympanophoridae p. 107, karnyi sp. n. Sumatra p. 108, Griffini Ent. Ztg. Wien 28.

Orchelimum pulchellum sp. n. New Jersey, Davis p. 33 Canad. Ent. 41.—O. crusculum synonym of O. fidicinium Rehn and Hebard, Davis Ent. News 20 p. 138.

Orphania scutata Werner 1903 nee Br., identisch mit Poecilimon ornatus Schmidt, WERNER Wien JahrBer. Entom Ver. 19 pp. 49-61.—O. zacharovi sp. n., Stschelkanowzeff Varšava Izv. Univ. 1909 6-8 pp. 47-49.—O. scutata; Azam Paris Bul. soc. ent. 1099 pp. 92-95.

†Palæorehnia maculata p. 285 fig. 3, Cockerell Amer. J. Sci. 28.

Pantecphylus cerambycinus subsp. major, GRIFFINI p. 14 Ann. Soc. ent. Belgique 53.

Pantolepta kilimandjarica sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6 p. 132 pl. vi fig. 5.

Papuogryllacris subgen. n. zu Gryllacris, Griffini Zool. Jahrb. Syst. 28 p. 140.—Papuogryllacris vide Gryllacris.

Paragryllacris shelfordi sp. n. Australia, Griffini Atti Soc. ital. sc. nat. 47 pp. 300-338.

Parudenus gen. n. near Heteromallus, falklandicus sp. n. Falklandsinseln, Enderlein Zool. Anz. 35 p. 158.

Peronura montivaga sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6 p. 129 pl. vi fig. 3 3a-b.

Plangiopsis schoutedeni &, GRIFFINI p. 10 Ann. Soc. ent. Belgique 53.

Plastocorypha nigrifrons subsp. cabrai, Griffini p. 17 T.c.

Platycleis fusca, Russland, Pylinov Rev. russ. ent. 9 p. 23.

Plegmatoptera meruensis sp. n., Sjö-Stedt Kilimandjaro-Meru Exp. 17 6 p. 130 pl. vi fig. 4-4e.

Poecilimon affinis, brunneri, Russland, Pytinov Rev. russ. ent. 9 p. 20.

—P. schmidti zolotarewi subsp. n. p. 49, distinctus sp. n. p. 50 f. 2, balkanicus p. 51, flavescens tereckensis subsp. n. p. 52 f. 3, geoktschajcus p. 53 f. 4, zavadskji p. 56 f. 5, spp. n., Kaukasus, Stschelkanowzeff Varšava Izv. Univ. 1909 6-8.

Pseudorhynchus calamus sp. n. Sumatra, Rehn Bull. Amer. Mus. 26 p. 203 figs. 24-25.

Rehnia; characters of the females, CAUDELL Psyche 16 p. 94.

Rhaphidophora caligulata Malayischer Archipel p. 370, sumatrana Sumatra, cultrifer, Sumatra, p. 371, spp. n., Zacher Zool. Anz. 34.—R. rechingeri sp. n. Samoa, Holdhaus Wien Denkschr. Ak. 84 pp. 537-562.

Scandalon gen. n. near Ametrus, ridiculum sp. n. Battakhochsläche, Zacher Zool. Anz. 34 p. 272.

Spada and Habetia Synonymie, KARNY Wien Verh. ZoolBot. Ges. 59 pp. 23-28.

Tetraconcha (Tellidia) banzyvilliana sp. n. Congo, Griffini p. 11 Ann. Soc. ent. Belgique 53,

Teuthras pallidus Walk., Synonymie und Beschreibung, Holdhaus Denksehr. Ak. Wien 84 p. 537-562.

Thamnotrizon apterus Tympanales Sinnesorgan, Regen Wien SitzBer. Ak. Wiss. Abt. III 117 1908 pp. 487-490.

Thaumatoxenia gen. n. aberrant, leggei sp. n. Ruwenzori, Kirby p. 65 Tr. zool. Soc. 19.

Timanthes superbus p. 196, quadratus p. 198 figs., Sumatra, spp. n., REHN Bull. Amor. Mus. 26.

Tylopsis meruensis p. 134, dispar p. 135, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6.

Udeopsylla socorrensis not a Phrixocnemis, Rehn & Hebard Proc. Acad. Philadelphia 61 p. 172.

Xiphidion nicht identisch mit Anisoptera, Karny Wien Verh. ZoolBot. Ges. 59 pp. 23-28.—X. meruense p. 138 pl. vi fig. 7, kilimandjaricum p. 138 pl. vi fig. 8, merumontanum p. 139 pl. vi fig. 9, 9a-b, kibonotense p. 139 pl. vi f. 10, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 6.

Zaprochilus gen. n. for Prochilus Brullé, CAUDELL Proc. Ent. Soc. Washington 11 p. 114.

ACRIDIIDAE.

The genera of *Pyrgomorphinae* and lists of the species, Bolivar Gen. ins. 90 58 pp. and 1 pl.

Eier der Schädlichen Arten, Rossikov Trd. b. entom. učen. Kom. Gl. Upr. Zeml. 4 5 p. 16.

Locusts in S. Africa; FULLER 2nd Rep. S. Afr. Locust Bur., 86 pp.

Abisares viridipennis var. n. azurea, SJÖSTEDT Kilimandjaro-Meru Exp. 17 7 p. 188.

Acridium brachypterum, dilatatum, Bolivar p. 402 Bol. Soc. espan. 9.—
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Aeolacris bella sp. n. Rio Purus, REHN U. S. Nation. Mus. Proc. 36 No. 1661 p. 114 figs. 3-5, Ageneotettix sierranus sp. n. California p. 429 ff. 9 & 10, Rehn & Hebard Proc. Acad. Philad. 61.

Aiolopus longicornis p. 169, meruensis p. 170, spp. n., Sjöstedt Kilimandjaro-Meru Exp. 177.

Apnorisa gen. n. for Pnorisa part, Bolivar p. 294 Bol. Soc. espan. 9.

Berengueria gen. n. Truxalinae, Bo-LIVAR p. 296 Bol. Soc. espan. 9.

Calliptamus meruensis sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 192 pl. vii fig. 16.

Callonotacris gen. n. Taeniopodae p. 128, lophophora sp. n. Chapada p. 129 figs. 15-18, Rehn U. S. Nation. Mus. Proc. 36 No. 1661 pp. 128-139.

Calloptenopsis speciosa sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 193 pl. vii fig. 17.

Campylacantha lamprotata sp. n. Texas, Rehn & Hebard Proc. Acad. Philadelphia 61 p. 157 figs. 12-14.

Chortoicetes roemeri sp. n. Amani, Karny Zool. Jahrb. Syst. 27 p. 479.

Chrysochraon kilimandjaricus sp. n., SJÖSTEDT Kilimandjaro-Meru Exp. 17 7 p. 161 pl. vii fig. 4-5.

Circotettix splendidus sp. n. California p. 456 ff. 13 & 14, Rehn & Hebard Proc. Acad. Philad. 61.

Cladonotella gen. n. p. 395 for Cladonotus beccarii Bol., HANCOCK Tr. ent. Soc. London 1908.

Coptotettix problematicus sp. n. Assam, Bolivar p. 402 Bol. Soc. espan. 9.— C. parvulus sp. n. Zambesi, Hancock p. 421 Tr. ent. Soc. London 1908.

Cordillacris apache sp. n. New Mexico, Rehn & Hebard Proc. Acad. Philadelphia 61 p. 139 figs. 10-11.—C. grinnelli sp. n. California p. 425 f. 8, Rehn & Hebard T.c.

Coryacris gen. n. near Catreus, diversipes sp. n. Brazil, pv. 111-114 figs. 1-2, Rehn U. S. Nation. Mus. Proc. 36 No. 1661.

Crimisus lobatus sp. n. Amazons, Hancock p. 403 Tr. ent. Soc. London 1908.

Criotettix angulatus sp. n. Dorey isld., HANCOCK p. 399 T.c.—C. lombokensis sp. n. Lombok, BOLIVAR p. 396 Bol. Soc. espan. 9. Derotmema lentiginosum Scudder synonym of Trimerotropis gracilis Thomas, CAUDELL Proc. Ent. Soc. Washington 11 p. 113.

Desmoptera sundaica sp. n. Sumatra, Rehn Bull. Amer. Mus. 26 p. 188 figs. 12-13.

Duronia laticornis sp. n. Palästina, Krauss Karlsruhe Verh. natw. Ver. 21 Abh. p. 118.

Elaeochlora humilis p. 124 figs. 11-12, pulchella p. 126 figs. 13-14, spp. n., Brazil, Rehn U. S. Nation. Mus. Proc. 36 No. 1661.

Encoptolophus robustus sp. n. California p. 435 ff. 11 & 12, Rehn & Hebard Proc. Acad. Philad. 61.

Eoscyllina gen. n. Scyllini p. 186, inexpectata sp. n. Sumatra p. 187 figs. 10-11, Rehn Bull. Amer. Mus. 26.

Eugavialidium flavopictum Calcutta p. 394, bedoti Java p. 395, feae Burma p. 396, spp. n., Bolivar Bol. Soc. espan. 9.

Euparatettix pilosus sp. n. India, Намсоск р. 409 Tr. ent. Soc. 1908.

Euprepocnemis coerulipes sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 189.

Froggattia gen. n. for Hyalopteryx australis Walk., Bolivan p. 288 Bol. Soc. espan. 9.

Gastrimargus volkensi sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 172 pl. vii fig. 6.

Gignotettix gen. n. near Cladonotus p. 397, burri sp. n. Ceylon p. 398 and pl. xxii f. 5, Hancock Tr. ent. Soc. London 1908.

Hadrotettix mundus Seudder to Trimerotropis, Caudell p. 112 Proc. Ent. Soc. Washington 11.

Halmatettix gen. n. Batrachideae p. 424, cristinotus sp. n. Brazil p. 425, HANCOCK Tr. ent. Soc. London 1908.

Hedotettix punctatus hab. unknown, angustatus Borneo, spp. n., HANCOCK p. 422 T.c.

Helionotus gen. n. near Draconata, mirabilis sp. n. Pernambuco p. 121-124 figs. 8-10, Rehn U. S. Nation. Mus. Proc. 36 No. 1661. Helioscirtus tichomirovi sp. n. Transkaukasien, Stschelkanowzeff Varšava Izv. Univ. 1909 6-8 pl. 40-43 fig. l.

Hesperotettix brevipennis New Jersey, Rehn Ent. News 20 p. 104.

Heteropternis kilimandjarica sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 174.

Holoarcus gen. n. for pt. of Piezotettix, altinotus sp. n. Aru isld. pl. xxii f. 2, p. 392, Hancock Tr. ent. Soc. London 1908.

Homalosaparus sordidatus sp. n. Chapada, Rehn U. S. Nation. Mus. Proc. 36 No. 1661 p. 155 figs. 36-37.

Inusia bonitensis sp. n. Pernambuco, REHN T.c. p. 139 figs. 24-25.

Jamesonia gen. n. Truxalinae for dimidiata Bol., Bolivar p. 292 Bol. Soc. espan. 9.

Jodacris furcillata sp. n. Chapada, REHN U. S. Nation. Mus. Proc. 36 No. 1661 p. 147 fig : 30-31.

Kaloa gen. n. Truxalinae for tabellifera Bol., Bolivar p. 290 Bol. Soc. espan. 9.

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Lamellitettix pluricarinatus sp. n. Ceylon, Hancock p. 404 Tr. ent. Soc. London 1908.

Leptomerinthoprora aequalis sp. n. Bahia, Rehn U. S. Nation. Mus. Proc. 36 No. 1661 p. 150 figs. 32-33.

Leva gen. n. for Gymnobothrus part, Bolivar p. 292 Bol. Soc. espan. 9.

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Morphopus folipes sp. n. Mashonaland, Hancock p. 402 T.e.

Morsea californica tamalpaisensis subsp. n. California p. 421 ff. 3 & 5, Rehn & Hebard Proc. Acad. Philad. 61.

Nemotettix sanssurei sp. n. Orizaba, Bolivar p. 402 Bol. Soc. espan. 9.

Nesotettix gen. n. samoensis sp. n. Samoa, Holdhaus Wien Denschr. Ak. 84 pp. 537-562.

Nomotettix borealis sp. n. Ontario, WALKER p. 173 pl. vii f. 1 Canad. Ent. 41.—N. validus p. 415, arcticus with var. obtusus p. 416, spp. n. N. America, HANCOCK Tr. ent. Soc. London 1908.

Oedipoda coerulescens und miniata, oertlich isolierte Fundplätze, Schuster Ent. Rdsch. 26 pp. 70–71; Bemerkung dazu Kheil t.c. p. 90.—O. migratoria chemischen Zusammensetzung der Wanderheuschrecke, ihrer Eier und der noch ungefügelten Brut; Schroeder Zs. Pflanzenkrankh. 19 pp. 13–18 I Taf.

Omocestus rufipes var. n. rufitarsis, Navás p. 101 Bol. Soc. Aragon 8.

Opeia imperfecta, variability, Rehn & Hebard Proc. Acad. Philadelphia 61 р. 137.

Orphulella losamatensis nom. n. for walkeri Brunn., CAUDELL Proc. Ent. Soc. Washington 11 p. 113.

Orthotettia gen. n. p. 405, obliquifrons sp. n. Borneo pl. xxii f. 6 & p. 406, HANCOCK Tr. ent. Soc. London 1908.

Oxyphyllum gen. n. near Xerophyllum, pennatum sp. n. India pl. xxii f. 3, p. 393, HANCOCK T.c.

Oxya serrulata var. n. minor, Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 196.

Oxybleptella pulchella sp. n. Chapada, REHN U. S. Nation. Mus. Proc. 36 No. 1661 p. 136 figs. 21-23.

Pamphagus nugatorius sp. n. Teruel, Navás p. 102 Bol. Soc. Aragon 8.— P. kneuckeri sp. n. Libanon, Krauss Karlsruhe Verh. natw. Ver. 21 Abh. p. 114.

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Paraleuas frater sp. n. Chapada, REIN U. S. Nation. Mus. Proc. 36 No. 1661 p. 144 figs. 28-29.

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Paratettix marshalli Cape Town, shelfordi Perak, spp. n., HANCOCK p. 411 Tr. ent. Soc. London 1908.

Paropomala; key, Rehn & Hebard Proc. Acad. Philadelphia 61 p. 133.

Paroxya bermudensis sp. n. Bermuda, Rehn Ent. News 20 p. 343.

Phorenula gen. n. Truxalinae, Bolivarr p. 296 Boll. Soc. espan. 9.

Phrynotettix verruculatus, Rehn & Hebard Proc. Acad. Philadelphia 61 p. 156.

Piezotettix truncatus sp. n. Morty isld., Hancock p. 391 Tr. ent. Soc. London 1908.

Platypterna (Ochrilidia) nyuki sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7 p. 160.

Pnorisa montium sp. n., Sjöstedt Kilimandjaro-Meru Exp. 177 p. 164. Polychitonacris nom. n. for Polysarcus Saussure, Rehn U. S. Nation. Mus. Proc. 36 No. 1661 p. 162.

Polychitonacris synonym of Pycnosarcus Bolivar, Caudell p. 112 Proc. Ent. Soc. Washington 11.

Prostethophyma gen. n. Truxalinae, Bolivar p. 295 Bol. Soc. espan. 9.

Prototettix africanus sp. n. Rhodesia, Hancock p. 417 Tr. ent. Soc. London 1908.

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Rytinatettix gen. n. type Prototettix fossulatus Bol., Hancock p. 418 Tr. ent. Soc. London 1908.

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Serpusia pygmaea sp. n. Amani, Karny Zool. Jahrb. Syst. 27 p. 479.

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Stauroderus intricatus sp. n. Huesca, Navás Bol. Soc. Aragon 8 p. 101.

Stenobothrus parallelus Variabilität des Flügelgeäders, Pylinov Rev. russ. ent. 9 p. 17.

Sumba gen. n. Truxalinae, BOLIVAR p. 289 Bol. Soc. espan. 9.

Systolederus sp. n. Singapore, Hancock p. 401 Tr. ent. Soc. London 1908.—S. carli sp. n. Lombok, Bolivar p. 397 Bol. Soc. espan. 9.

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Ticra gen. n. Truxalinae, EOLIVAR p. 294 Bol. Soc. espan. 9.

Tomonotus aztecus, Lactista boscanus Rehn synonym, Rehn & Hebard Proc. Acad. Philadelphia **61** p. 149.

Tropinotus attenuatus sp. n., Chapada, Rehn U. S. Nation. Mus. Proc. 36 No. 1661 p. 118 fig. 6-7.

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Usambilla gen. n. near Lentula p. 191, olivacea p. 193 sp. n., Sjöstedt Kilimandjaro-Meru Exp. 17 7.

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Zaphyllonotum gen. n., type Choriphyllum foliatum Hancock, Caudell Proc. Ent. Soc. Washington 11 p. 113.

Zoniopoda mimicula sp. n. Chapada, Rehn U. S. Nation. Mus, Proc. 36 No. 1661 p. 132 figs. 19-20.

THYSANURA and PROTURA.

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Acerentulus perpusillus sp. n. Italia, Berlese Redia 6 fasc. 1 pp. 1-182.

Anajapyx mexicanus sp. n. Messico, Silvestri Rend. Ace. Lincei 18 1° Sem. p. 7.

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Lepisma escherichi sp. n. im Nest von Messor excursionis p. 230 Textf. i & ii, persica im Nest von Myrmecocystus bicolor, Tetramorium caespitum, Formica fusca rufibarbis, Beschreibung p. 232 Transkaspien, Karawajew Rev. russ. ent. 9 1909 [1910].

Lepismina aurisetosa sp. n. Egypt, WAHLGREN Res. zool. exped. Egypt Pt. 3 No. 15 p. 21 fig.

Projapyx incomprehensus sp. n. Syn. Japyx sp. Wahlgren 1901, Silvestri Rend. Acc. Lincei 18 1° Scm. pp. 7-8.

Prosapteron gen. n. indicum sp. n. Malabarküste, weitl. Indien, Schefotieff Zool. Jahrb. Syst. 28 p. 121.

Symphylurinus gen. n., grassii sp. n., Syn. Projapyx stylifer Silv. non Cook, SILVESTRI Rend. Acc. Lineci 18 1° Sem. pp. 3-8.

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Collembola, HEYMONS & HEYMONS Die Süsswasserfauna Deutschlands H. 7 pp. 1-16.

Collembola from South Orkney islands, paper reprinted (cf. Zool. Rec. 1907); CARPENTER Rep. Voy. Scotia 5.

List of Collembola found on snow and ice; LATZEL Carinthia 2 pp. 145-173.

Achorutes japonicus, pterothrix, spp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 p. 107.—A. viaticus, Carpenter p. 377 Subantaret. Islds. N. Zealand 1.

Amerus gen. n., normani sp. n. Berkhampstead, Collinge & Shoebotham J. Econ. Biol. 4 1909 p. 47 pl. vi.

Cremastocephalus bicinctus sp. n., affinis var. n. concolor, Japan, BÖRNER SitzBer. Ges. natf. Freunde 1909 p. 123.

Cryptopygus reagens p. 408, tricuspis p. 459, spp. n., Antarktische Inseln, Enderlein D. Südpolar Exped. 10 H. 4.

Cyphoderus sudanensis p. 18, termitum p. 19, arcuatus p. 20, spp. n. White Nile, Wahlgren Res. zool. exped. Egypt Pt. 3 No. 15 figs.

Dicyrtoma chloropus var. n. pallens Japan, Börner SitzBer, Ges. natf. Freunde 1909 p. 129.

Dicyrtomina leptothrix sp. n. Japan, Börner p. 128 T.c.

Entomobrya villosa, striatella, amethystina, stenonyx, sauteri, spp. n., corticalis var. n. affinis, Japan, Börner p. 116–120 T.e.

Frisea nigroviolacea sp. n. Kerguelen, Enderlein D. Südpolar-Exped. 10 H. 4 p. 458.

Homaloproctus gen. n. Poduridae, sauteri sp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 p. 105.

Hypogastrura reticulata sp. n. Japan Börner p. 100 T.c.

Isotoma bituberculata p. 5 figs. 5-8, lineata p. 6 figs. 9-10, spp. n., Egypt, WAHLGREN Res. zool. exped. Egypt Uppsala Pt. 3 No. 15.—I. negishira, carpenteri, occulta, pinnata, gracilliseta, spp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 pp. 108-113.

Lepidocyrtus incoloratus p. 8, pulchellus p. 9, jaegerskiöldi p. 10, traegaardhi p. 11, obtusus p. 14, flagellatus p. 16, decem-oculatus p. 17, spp. n. Egypt and Soudan, Wahldren Res. 2001. exped. Egypt Pt. 3 No. 15 figs.—L. sanguineus p. 531 & p. 537, luteus p. 533 & p. 538, Ohio spp. n., Jackson Ohio Nat. 9.

Odontella thauma sp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 p. 106.

Papirius carpenteri sp. n. Stourport, Collinge & Shoebotham J. Econ. Biol. London 4 p. 11 pl. iii figs. 8-12.

Podura; Biologie, Prochnow Ent. Zs. 22 р. 191.

Pogonognathus beckeri sp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 p. 115.

Proisotoma lamelligera sp. n. Japan, Börner p. 108 T.c.

Protaphorura granulata, conjungens, spp. n. Japan, Börner pp. 103-104 T.c.

Pseudachorutes niloticus sp. n. Egypt, Wahlgren Res. zool. exped. Egypt Uppsala Pt. 3 No. 15 p. 3 figs. 1-4.

Pseudosira gigantea sp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 p. 122.

Ptenothrix corynophora sp. n., denticulata var. n. catenata, setosa varr. n. picta and janthina, Japan, Börner pp. 130-132 T.c.

Ptenura bimaculata sp. n. Japan, Börner p. 121 T.e.

Pteronychella gen. n. near Isotoma, perpulchra sp. n. Japan, Börner p. 113 T.c.

Sinella myrmecophila, in Wohnzimmern, Reuter p. 171 Medd. Soc. Fauna Fenn. 35.

Sminthurinus fenestratus sp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 p. 124.—S. granulosus sp. n. Crozet-Inseln, Enderlein D. Südpolar Exped. 10 H. 4 p. 409.

Sminthurus biftavopunctatus sp. n. Berkhamsted, Collinge & Shoebotham J. Econ. Biol. London 4 p. 9 pl. iii figs. 1-7.—S. sensibilis, serrulatus spp. n. Japan, Börner SitzBer. Ges. natf. Freunde 1909 pp. 126-127.

Sphyrothera multifasciata var. n. ornata Japan, Börner p. 126 T.e.

Tomocerus cuspidatus sp. n. Japan, Börner p. 114 T.e.

Triacanthella alba sp. n. Campbell Isl., Carpenter Subantarct. Isl. New Zealand 1 p. 378.

XIII. PROCHORDATA

incl. ENTEROPNEUSTA

ARRANGED BY

I. B. J. SOLLAS

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I.—TITLES.

[Anon.] Sur le développement des fentes branchiales et des canalicules de Weiss-Boveri chez l'Amphioxus. (Note préliminaire.) Anat. Anz. Jena 34 1909 (126-151).

Boeke, J. Iets over den bouw van het centraalzenuwstelsel by Amphioxus lanceolatus. [Etwas über den Bau des Centralnervensystems von Amphioxus lanceolatus.] Amsterdam Werk. Gen. Nat. Gences. Heelk. ser. 2 6 2 1909 (87–88).

Brément, Ernest vide Chatton, Edouard.

Caullery, Maurice. Recherches sur les synascidies du genre Colella et considération sur la famille des Distomidae. Bul. sci. France-Belgique Paris 42 1909 (1-59) fig. 3

Chatton, Edouard. Une ascidie fixée dans la peau d'Holothuria tubulosa Gm. Paris Bul. soc. zool. 34 1909 (25-27) fig. 4

Daumézon, Georges. Contribution à l'étude des Synascidies du golfe de Marseille. Bul. sci. France-Belgique Paris 42 1909 (269-432) fig. 5

Daumézon, G. Liste des Synascidies du golfe de Marseille. Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° Partie 1908 (589-591).

Daumézon, G. vide Gerber, C.

Dawydoff, C. Beobachtungen über den Regenerationsprozess bei den Enteropneusten. Zs. wiss. Zooi. Leipzig 93 1909 (237–305) 4 Taf. 7

Duboscq, O. vide Léger, L.

Gerber, C. et Daumézon, G. Relations entre la résistance des présures et la température des organismes qui les sécrètent. Paris C. R. soc. biol. 66 1909 (196-197).

Gerber, C. et Daumézon, G. La présure des Ascidiés. Paris C. R. soc. biol. 66 1909 (193-195).

Gilchrist, J. D. F. On two new species of *Ptychodera* (*P. proliferans* and *P. natalensis*). Cape Town Ann. S. Afric. Mus. **5** 1908 (207–212). **10**

Goldschmidt, Richard. Die Amphioxides-Formen. (Deutsche Südpolar-Expedition 1901–1903, Bd 11, III, H. 2.) Berlin (G. Reimer) 1909 (231–241) Taf. 35 cm.

Goodrich, E. S. On the structure of the exerctory organs of Amphioxus. Parts 2, 3 & 4. London Quart. J. Microsc. Sci. 1909 54 (185-205) pls. 11-16. 12

Gräf. Forschungsreise S.U.S.
"Planet" 1906-7 4 Biologie 1909
Planktonuntersuchungen (115-198). 13

Grieg, M. J. In: Duc d'Orléans: Croisière Océanographique dans la mer du Grönland folio 1907. Ascidies. (506 & 534.)

Hartmeyer, R. Tunicata (Mantelticre). Begonnen v. Osw[ald]. Sceliger. (H. G. Bronn's Klassen u. Ordnungen des Tierreichs, Bd 3, Suppl., Lfg 81-85 & 86-87.) Leipzig (C. F. Winter) 1909 (1281-1424 & 1425-1488). 26 cm.

Hartmeyer, R. Die systematische Stellung der Gattung Glandula. Zool. Anz. Leipzig 34 1908 (144-150). 15

Hartmeyer, R. Abgeänderte Artnamen einiger Ascidien. Berlin Sitz-Ber. Ges. natf. Freunde 1909 (225-227).

Hartmeyer, R. Zur Terminologic der Didemnidae. Berlin SitzBer. Ges. natf. Freunde 1909 (575-581).

Hartmeyer, R. Tunicata für 1907 mit Nachträgen. [Jahresbericht.] Arch. Natg. Berlin 74 Bd 2 H. 3 1908 [1910] x (1-16). 18 Heider, Karl. Zur Entwicklung von Balanoglossus clavigerus Delle Chinje. Zool. Anz. Leipzig 34 1909 (695-704).

Hubrecht, A. A. W. Early ontogenetic phenomena in Mammals and their bearing on our interpretation of the phylogeny of the vertebrates. Quart. J. Microsc. Sci. London 1908 53 (1-183).

Julin, Ch. Les embryons de Pyrosoma sont phosphorescents; les cel·lules du testa (Calymnocytes de Salensky) constituent les organes lumineux du Cyathozoïde. Paris C. R. soc. biol. 66 1909 (80-82).

Kemna, Ad. Octaenemus. Unc ascidie mégophage. Ann. Soc. roy zool. et malacol. Belgique 41 1906 (20 pp.). 22

Kesteven, H. Leighton. Studies on Tunicata. No. 1. Sydney N.S.W. Proc. Linn. Soc. 34 1909 (276-295) pls. xxv-xxvii. 23

Lahille, F. Tableau dichtomique des principaux genres et des principales espèces de Tuniciers qu'on pout recontrer sur les côtes de France. Naturaliste Paris 31 1909 (36-38 46-48 58-59).

Lohmann, H. Die Gehäuse und Gallertblasen der Appendicularien und ihre Bedeutung für die Erforschung des Lebens im Meer. Verh. D. zool. Ges. Leipzig 19 1909 (200-239). 25

Lohmann, H. Copelata und Thaliacea. (Die Fauna Südwest-Australiens, hrsg. v. W. Michaelsen u. R. Hartmeyer. Bd 2, Lfg 10.) Jena (G. Fischer) 1909 (143-149). 26

MacBride, E. W. The formation of the layers in Amphioxus and its bearing on the interpretation of the early onto genetic processes in other vertebrates. London Quart. J. Microsc. Sci. 1909 54 (279-345) pls. 18-21.

Martini, E. Studien über die Konstanz histologischer Elemente. I. Oikopleura longicauda. Zs. wiss. Zool. Leipzig 92 1909 (563-626) 3 Taf. 28

Martini, E. Studien über die Konstanz histologischer Elemente. II. Fritillaria pellucida. Zs. wiss. Zool. Leipzig 94 1909 (81–170) 3 Taf. 29

Martini, E. Ueber die Segmentierung des Appendicularienschwanzes. Verh. D. zool. Ges. Leipzig 19 1909 (300-307). Matzdorff, Carl. Tunicata für 1906. [Jahresbericht.] Arch. Natg. Berlin 73 Bd 2 H. 3 1907 [1909] x (1-19). 31

Morey, F. Guide to the natural history of the Isle of Wight. 8vo. 1909. Tunicata (474).

Neumann, Günther. Mitteilung über eine neue Pyrosomenart der Deutschen Tiefsee-Expedition, nebst Bemerkungen über die Stockbildung und das Wandern der Knospen bei *Pyrosoma*. Zool. Anz. Leipzig 34 1909 (654-671).

Neumann, Günther. Mitteilung über cinige neue Pyrosomen-Art der Deutschen Tiefsee-Expedition. Zool. Anz. Leipzig 33 1909 (792-794). 34

Neumann, Günther. Mitteilung über cinige neue Pyrosomen- und Doliolum-Art der Deutschen Südpolar-Expedition. Zool. Anz. Leipzig 33 1909 (794-797).

Neumann, G. Tunicata (Manteltiere). Begonner v. Osw[ald] Seeliger. (H. G. Bronn's Klassen u. Ordnungen des Tierreichs, Bd 3, Suppl., Abt. 2, Lfg 1-3.) Leipzig (C. F. Winter) 1909 (1-48) Taf. 26 cm. 35

Peter, Karl. Eine Defektbildung bei einer Larve von *Phallusia mamillata*. Arch. EntwMech. Leipzig 27 1909 (62-70). 36

Pizon, Antoinc. Ascidies d'Amboinc. Rev. Suisse Zool. Genève 16 (195-240) 6 pls. 37

Pizon, Antoire. Le stolon génital des Diplosomes (Ascidies composées); son évolution au cours de la régression partielle et de la displanchtomie des Ascidiozoïdes. Paris C. R. Acad. sci. 149 1909 (304-305).

Ritter, Wm. E. Halocynthia johnsoni n. sp. A comprehensive inquiry as to the extent of law and order that prevails in a single animal species. Berkeley Univ. Cal. Pub. Zool. 6 1909 (95-114) pls. vii-xiv.

Roule, Louis. Étude sur les formes premières de la notocorde et sur les affinités naturelles des Chordés. Arch. zool. Paris sér. 4 10 1909 (447-546). 40

Schepotieff, Alexander. Aberrante Würmer Enteropneusta für 1906. [Jahresbericht.] Arch. Natg. Berlin 73 Bd 2 H. 3 1907 [1909] xiv f. (1-16). Seeliger, Oswald vide Hartmeyer, R.

Sluiter, C. Ph. Die Tunicaten der Siboga Expedition. II. Die merosomen Ascidien. Uitkomsten op zool., botan., ocean., geol. gebied, verzameld in Nederl. Indie 1899-1900 aan boord H.M. Siboga onder commando van Luit t-z G. F. Tydeman, uitgegeven door Max Weber. [Résultats des expéditions zool., botan., océan., géol., entreprises aux Indes Néerl., en 1899-1900 à bord du Siboga sous le commande-ment de G. F. Tydeman, publics par Max Weber.] Monogr. 56b (Livr. 45). Leide (E. J. Brill) 1909 (112) 8 Taf.

Spengel, J. W. Pelagisches Vorkommen von Enteropneusten. Zool. Anz. Leipzig 34 1909 (54-59). 43

Studnička, Franz Karl. Vergleichende Untersuchungen über die Epidermis der Vertebraten. Anat. Hefte Wiesbaden Abt. I 39 1909 (1-267) 15 [8] Taf.

Tanner, F. L. Report of Section for Marine Zoology. Guernsey Trans. Soc. nat. Sci. 1908 (282-285). 45

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GEOGRAPHY.

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Chordata, natural affinities, ROULE Arch. zool. Paris ser. 4 10 p. 447.

(1) Tunicata = Urochordata.

Tunicata (Manteltiere), HARTMEYER (H. G. Bronn's Klassen u. Ordnungen des Tierreichs, Bd 3, Suppl. Lfg 81-87) Leipzig 1909 pp. 1281-1488.

Tunicata für 1906, MATZDORFF Arch. Natg. 73 Bd 2 H. 3 1907 [1909] x pp. 1-19.

Tunicata für 1907 mit Nachträgen. [Jahresbericht], HARTMEYER Arch. Natg. 74 Bd 2 H. 3 1908 [1910] x pp. 1-16.

Abgeänderte Artnamen einiger Ascidien, Hartmeyer Berlin SitzBer. Ges. naft. Freunde 1909 pp. 225–227.

Merosome Ascidien der Siboga Expedition, Sluiter Résult. Explor. Siboga Monogr. 56b (Livr. 45) p. 112.

Liste des Synascidies du golfe de Marseille, DAUMÉZON Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° Partie 1908 pp. 589-591.

Tableau dichtomique des principaux genres et des principales espèces de Tuniciers qu'on peut rencontrer sur les côtes de France, LAHILLE Naturaliste Paris 31 pp. 36-38 46-48 58-59.

Une ascidie fixée dans la peau d'Holothuria tubulosa Gm., Chatton Paris Bul. soc. zool. 34 pp. 25-27 fig.

Amaroucium nordmanni var. n. nigrescens p. 291, tridentatum p. 292, spp. n. Golf de Marseille, Daumézon Bul. sci. France-Belgique 42, mediterraneum n. n. für cristallinum D. Valle, Hartmeyer Bronn's Klassen und Ordnungen p. 1467, crateriferum, profundum, altarium, spp. n., Malay Archipelago, Sluiter Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. 103-106.

Aplidium multiplicatum, depressum, spp. n. Malay Archipelago, Sluiter Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. 101-102.

Ascidia venosa Müll. synonymy, HARTMEYER Berlin SitzBer. Ges. natf. Freunde p. 227.

Ascidiella opalina McGillivray, synonymy, Hartmeyer Berlin SitzBer. Ges. natf. Freunde p. 227.

Atopogaster tropicum sp. n. Malay Archipelago, Slutter Résult. Explor. Siboga Monogr. 56b (Livr. 45) p. 107.

Botryllocarpa n. n. für Protobotryllus Piz, Hartmeyer in Bronn's Klassen und Ordnungen p. 1484.

Botrylloides mediterraneum sp. n. Golf de Marseille, Daumézon Bul. sci. France-Belgique 42 p. 297.

Caesira alderi nom. n. für inconspicua Ald. u. Hanc., immunda nom. n. für sordida Sluit., Hartmeyer Klass. u. Ordnungen Tier. Bd 3 Suppl. Lfg. 81-85 pp. 1323-1324.

Colella incerta New Holland p. 10, perrieri Santa Cruz p. 33 spp. n., CAUL-LERY Bul. sci. France-Belgique 42.

Corella valentinae sp. n. Hobart Tas., Kesteven Sydney Proc. Linn. Soc. 34 p. 286 fig.

Cystodites variabilis, rufus, semicataphractus spp. n. Malay Archipelago, SLUITER Résult. Expl. Siboga Monogr. 56b (Livr. 45) pp. 28-30.

Dendrodoa gregaria sp. n. Hobart Tas., Kesteven Sydney Proc. Linn. Soc. 34 p. 291 fig.

Didemnoides crassum sp. n. p. 288 Golf de Marseille, DAUMÉZON Bul. sci. France-Belgique 42.

Didemnopsis profundus sp. n. Malay Archipelago, Slutter Résult Explor. Siboga Monogr. 56b (Livr. 45) p. 44.

Didemnum; synonymy, HARTMEYER Berlin SitzBer. Ges. natf. Freunde p. 580.—D. gottschaldti n. n. für asperum Gottsch., canum n. n. für candidum D. Valle, lahillei n. n. für gelatinosum Giard., pardale n. n. für maculatum Gottsch., novae-seelandiae für niveum Nott, frondescens n. n. für ramosum Herdm., HARTMEYER in Bronn's Klassen und Ordnungen p. 1449-1450.-D. fucatus, tenebricosum, tabulatum, recurvatum, timorensis, fuscum, caesium, dispersum, digestum, dealbatum, makropnous, fragilis, chartaceum, cuspidatum, membranaceum, albopunctatum, jedanensis, reticulatum, fraternum, montosum, semifuscum, ramosum, maeandrium, elongatum, spongioides spp. n. Malay Archipelago, Sluiter Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. 47-67 .- D. inaequilobatum sp. n.

Golf de Marseille, Daumézon Bul. sei. France-Belgique 42 p. 285.

Diplosomoides triangulum, triforme, tropicum, cuculliferum spp. n. Malay Archipelago, SLUTTER Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. 86-90.

Distoma; systematic position, Dau-MÉZON Bul. sci. France-Belgique Paris 42 1909 p. 422.—D. tridentatum var. n. posidonicola Golf de Marseille, Dau-MÉZON Bul. sci. France-Belgique 42 p. 280.

Doliolum resistibile sp. n. Antarktis, Neumann Zool. Anz. 33 pp. 794-797.

Eudistoma sluiteri n. n. für molle Sluit., HARTMEYER in Bronn's Klassen und Ordnungen p. 1488.

Fritillaria abjornseni sp. n. Fremantle, Lohmann Fauna Südwest Australiens Bd. 2 Lfg. 10 p. 147.

Glandula, systematische Stellung, HARTMEYER Zool. Anz. 34 pp. 144-150.

Glossoforum sundaicum sp. n., Malay Archipelago, SLUITER Résult Explor. Siboga Monogr. 56b (Livr. 45) p. 97.

Halocynthia johnsoni sp. n. California pp. 67-69, pl. 7, anatomy pp. 69-75 pls. 8 9 11-14, variation pp. 75-78 table 1 pl. 10, RITTER W. E. Berkeley Univ. Cal. Pub. Zool. 6 1909.

Leptoclinum; synonymy, HART-MEYER Berlin SitzBer. Ges. Freunde p. 581.—L. papyraceum, simile, discrepans, perspicuum, varium, subviridis, calificiforme, multifidum, marmoratum, spp. n. Malay Archipelago, SLUITER Résult. Explor. Monogr. 56b (Livr. 45) pp. 75-84. L. virens n. n. für viride Herdm., HART-MEYER in Bronn's Klassen und Ordnungen p. 1456.—L. protectum sp. n. Golf de Marseille, DAUMÉZON Bul. sci. France-Belgique 42 p. 286.

Molgula mortoni, sp. n. Hobart Tas., Kesteven Sydney Proc. Linn. Soc. 34 p. 289 fig.

Morchellium intercedens sp. n. Malay Archipelago, Sluiter Résult. Explor. Siboga Monogr. 56b (Livr. 45) p. 108.

Nephtheis malayensis, centripetens, faciformis spp. n. Malay Archipelago, SLUITER T.c. pp. 36-39.

Octacnemus; une ascidie mégophage, Kemna Ann. soc. roy. zool. et malacol. Belgique 41.

Oikopleura longicauda, Konstanz histologischer Elemente, Martini Zs. wiss. Zool. 92 pp. 563-626.

Pandocia pizoni n. n. für pedunculata Piz, HARTMEYER in Bronn's Klassen und Ordnungen 3 suppl. p. 1484.

Phallusia arenosa nom. n. für sabulosa Sluit., conifera nom. n. für spinosa Sluit., corallophila nom. n. für sulcata Sav., Hartmeyer T.c. p. 1404.—P. virginea (Müll.), synonymy, Hartmeyer Berlin SitzBer. Ges. natf. Freunde p. 227.

Polycarpa erecta p. 202, ovata p. 211, pedunculata p. 216, picteti p. 207 spp. n. Amboina, Pizon Rev. Suisse Zool. 16 1908.

Polycitor signiferus, gilboviridis, miniaceus, segmentatus, mollis, glaucusarenaceus, violaceus, spirifer, discolor, torosus, loricatus, ianthinus, amplus, coalitus, multiperforatus, scaber, regularis, spp. n. Malay Archipelago, SLUITER Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. L-27.

Polyclinum globosum, circulatum, mikropnous, crater, tabulosum spp. n., Malay Archipelago, Sluiter pp. 92-96 T.c.—P. jacksonianum n. n. für fuscum Herdm., sphaeroides n. n. für globosum Ritt., insulinde n. n. für globosum Sluit., psammiferum n. n. für sabulosum Sluit., HARTMEYER in Bronn's Klassen und Ordnungen 3 suppl. p. 1461.—P. vasculosum sp. n. Amboina, Pizon Rev. Suisse Zool. 16 1908 p. 223.

Polysyncraton dubium, marmoratum, rufum, ocellatum, nigropunctatum spp. n., Malay Archipelago, Sluiter C. Ph. Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. 69-74.

Protobotryllus viridis sp. n. Amboina, Pizon Rev. Suisse Zool. 16 1908 p. 234.

Pyrosoma triangulum Indic p. 792, ovatum p. 794 Süd-Atlantik, spp. n., NEUMANN Zool. Anz. 33.—P. verticillatum Indik, op. cit. 34 p. 654.

Pyura squamata sp. n., Antarktik, p. 1337, aculeata nom. n. für echinata Ritt. p. 1339, pallida f. n. japonica, Japan, p. 1340, fructuosa nom. n. für polycarpa Sluit., roseola nom. n. für

rosea Sluit., acanthifera nom. n. für spinifera Herdm., p. 1341, Hartmeyer Klassen Ordnungen Tierreichs Bd. 3 Suppl. Lfg. 81-85.

Sidneioides, gen. n. type tamaramae, sp. n. Fam. Polyclinidae Sydney, Kes-TEVEN Sydney Proc. Linn. Soc. 34 p. 277 fig.

Sigillina caerulea sp. n. Malay Archipelago, Sluiter Résult. Expl. Siboga Monogr. 56b (Livr. 45) p. 31.

Tethyum kupfferi nom. n. für villosum Kupff., Hartmeyer Klassen Ordnungen Tierreichs Bd. 3 Suppl. p. 1360.

Trididemnum; synonymy, HART-MEYER Berlin SitzBer. Ges. natf. Freunde p. 580.

T. granosum, planum spp. n. Malay Archipelago, Slutter C. Ph. Résult. Explor. Siboga Monogr. 56b (Livr. 45) pp. 41-42.

(2) CEPHALOCHORDATA.

Amphioxus; depelopment in relation to phylogeny of vertebrates, HUBRECHT London 2. J. Micr. Sci. 53 1908 pp. 1-183.—Structure of excretory organs, Goodrich Quart. J. Microsc. Sci. 1909 54 p. 185.—Formation of layers, Mac-

BRIDE London Quart. J. Microsc. Sci. 54 p. 279.—Développement des fentes branchiales et des canalicules de Weiss-Boveri, Anon. Anat. Anz. 34 pp. 126–151.—A. lanceolatus, Centralnerven system, Boeke Amsterdam Werk. Gen. Nat. Gences. Heelk. 6 2 pp. 87–88.

Die Amphioxides-Formen, GOLD-SCHMIDT D. Sudpolar-Exp. Bd 11 iii H. 2 pp. 231-241 1 Taf.

(3) Enteropheusta.

Balanoglossus clavigerus Delle Chiaje, development, Heider Zool. Anz. 34 pp. 695-704.

Glandiceps, pelagie occurrence, Spen-GEL Zool. Anz. 34 pp. 54-59.

Ptychodera, Beobachtungen über den Regenerationsprozess bei den Enteropneusten, Dawydoff Zs. wiss. Zool. 93 pp. 237-305 4 Taf.—P. capensis sp. n. S. Africa, GILCHRIST Cape Town Trans. S. Africa, Phil. Soc. 17 p. 172.—P. natalensis p. 209, proliferans p. 208, spp. n. S. Africa, GILCHRIST Cape Town Ann. S. Afric. Mus. 6 pp. 207-212.

Aberrante Wurmer [Enteropheusta] für 1906. [Jahresbericht], Schepotieff Arch. Natg. 73 Bd. 2 H. 3 1907 [1909] xiv f. pp. 1-6.

XIV. VERTEBRATA

(GENERAL)

i.e., complementary to Mammalia, Aves, Reptilia, and Pisces

ARRANGED BY

D. SHARP

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I.—TITLES.

Agar, W. E. On an embryonic appendage of the claws of the Amniota, probably of an adaptive nature. Anat. Anz. Jena 35 1909 (373-380).

Ariëns Kappers, C. U. Weitere Mitteilungen bezüglich der phylogenetischen Verlagerung der motorischen Hirnnervenkerne. Der Bau des autonomen Systemes. Folia neuro-biol. Leipzig 1 1908 (157–172).

Ariëns Kappers, C. U. Die Phylogenese des Rhinencephalons, des Corpus striatum und der Vorderhirnkommissuren. Unter Mitwirkung v. W. F. Tbeunissen. Folia neuro-biol. Leipzig 1 1908 (173-288) 3 Taf.

Ariëns Kappers, C. U. Weitere Mitteilungen über Neurobiotaxis. Folia neuro-biol. Leipzig 1 1908 (507-534).

Ariëns Kappers, C. U. Weitere Mitteilungen über Neurobiotaxis. ii. Die phylogenetische Entwickelung des horizontalen Schenkels des Facialiswurzelknies. Folia neuro-biol. Leipzig 2 1908 (255–261). 5

Ariëns Kappers, C. U. und Vogt, H. Die Verlagerung der motorischen Oblongatakerne in phylogenetischer und teratologischer Beziehung. Neurol. Centralbl. Leipzig 27 1908 (958–964). 6

Ariëns Kappers, C. U. Over de phylogenese van het Corpusstriatum. [Ueber die Phylogenese des Corpus striatum.] Handl. Ned. Nat. Geneesk. Congres 12 1909 (297-312).

Ariëns Kappers, C. U. Phylogenetische Verlagerungen der motorischen Oblongatakerne, ihre Ursache und ihre Bedeutung für den Verlauf der intramedullären Wurzelfasern. Compterendu 1°r Congrès international de Psychiatrie 1908 (478-484).

Ariëns Kappers, C. U. Ueber structurelle Gesetze im Bau des Nervensystems. Arch. Psychiatrie Berlin 44 1908 (1193-1196). 9

Bean, Robert Bennett. [Review of Comparative anatomy of vertebrates. Adapted from the German of Dr. Robert Wiedersheim by W. N. Parker. 3d. ed.] Philippine J. Sci. Manila (B. Medical Sciences) 3 1908 (189–190). 10

Baum, Hermann vide Ellenberger, Wilhelm, 24.

Boeke, J. Die motorische Endplatte bei den höheren Vertebraten, ihre Entwickelung, Form und Zusammenhang mit der Muskelfaser. Anat. Anz. Jena 35 1909 (193-226) 1 Taf. 11

Brass, Arnold. Das Affen-Problem.
Professor E. Haeckel's Darstellungsund Kampfesweise sachlich dargelegtnebst Bemerkungen über Atmungsorgane und Körperform der WirbeltierEmbryonen. 2. [umgearb.] Aufl.
Leipzig (Biol. Verlag) 1909 (88) 4 Taf.
23 cm. 12

Braus, H. Imitationen im Knochensystem, auf Grund embryonaler Transplantation. Verh. Ges. D. Natf. Leipzig 80 (1908) II 2 1909 (516-517). 13

Bugnion, E. et Popoff, N. La signification du faisceau spermatique. Arch. Sci. Phys. Genève 4 22 1906 (497–500).

Buijtendijk, F. J. J. Ueber die Erregungsleitung im Kaltblüterherzen. Helder Tijdschr. Ned. Dierk. Ver. Ser. 2 11 1908 (52-60).

Burgi, Oskar. Blinddarm und Wurmfortsatz bei den Wirbeltieren. Schweiz. Arch. Thierheilk Zürich 47 1905 (173-194).

Champy, Christian. Sur la structure de la cellule absorbante de l'Intestin. I. Les mitochondries de la cellule intestinale. Paris C. R. soc. biol. 67 1909 (629-630).

Gords, Elisabeth. Die Entwickelung der Paukenhöhle von Lacerta agilis. Ein Beitrag zur Lehre vom schallleitenden Apparat der Wirbeltiere. Anat. Hefte Wiesbaden Abt. I 38 1909 (223-310) mit 2 [1] Taf.

Dénarié. Observations nouvelles sur quelques animaux de la Savoie disparus ou en voie de disparition. Chambéry Bul. soc. hist. nat. sér. 2 11 1906 (121-134).

Diamare, V. Sulla composizione dell'uovo in rapporto a questioni biologiche. Napoli Rend. Ass. sc. Ser. 3 15 1909 (319-331).

Dittrich, Hermann vide Ellenberger, Wilhelm.

Doello-Jurado, M. Essai d'une division biologique des Vertébrés. Buenos Aires An. Soc. Cient. Argentina 65 1908 (189-219).

†Dollo, Louis. The fossil vertebrates of Belgium. New York N.Y. Ann. Acad. Sci. 19 1909 (99-119) pls.

Durand. Rapports de la plèvre avec la cage thoracique chez les Vertébrés aériens. Toulouse Bul. soc. hist. nat. 42 1909 (33-96). 22

Edinger, Ludwig. Einführung in die Lehre vom Bau und den Verrichtungen des Nervensystems. Leipzig (F. C. W. Vogel) 1909 (V + 190) 1 Taf. 26 cm. 6 M.

Ellenberger, W., Baum, H. und Dittrich, Hermann. Handbuch der Anatomie der Tiere für Künstler. Bd IV. Anatomie von Hirsch, Reh und Ziege. Leipzig (Dieterich) 1909 (28) 8 Taf. 26 × 32 cm. 24

Fraipont, Julien. Mammifères, Reptiles, Amphibiens et Poissons. Coll. Selys Fasc. 32 1907 (1-79). 26

Friedenthal, Hans. Haarparasiten und Haarbau als Hinweise auf Blutsverwandtschaft. Berlin SitzBer. Ges. natf. Freunde 1909 (379-383). 27

Fuchs, Hugo. Betrachtungen über die Schläfengegend am Schädel der Quadrupeda. Anat. Anz. Jena 35 1909 (113-167). 28

Fleischmann, A. Die Kopfregion der Amnioten. Morphogenetische Studien. (4. Forts.) Morph. Jahrb. Leipzig **89** 1909 (31-82). **29**

Fleischmann, A. Der Cervicothorax der Amnioten. Topogenetische Studien. Morph. Jahrb. Leipzig 39 1909 (366-445). 80

Gaillard, C. vide Lortet.

Gaskell, W. H. On the evolution of the vertebrate central nevous system. Compte rendu 1er Congrès international de Psychiatrie 1908 (38-45).

Golgi, C. Di una minuta particolarità di struttura dell'epitelio della muccosa gastrica ed intestinale di alcuni Vertebrati. (Riassunto.) Monitore zool. ital. Firenze 20 1909 (50-52).

[Gurvič, Aleksandr.] Гурвичъ, Александръ. Атласъ и очеркъ эмбріологіи позвоночныхъ и человѣка. Дополи. перев, съ нѣмецк. [Atlas und Grundriss der Embryologie der Wirbelthiere und des Menschen. Vervollst. Uebers. a. d. Deutsch. des gleich. Autors.] St. Peterburg 1909 (2 + 340) b9 Taf. 18 cm. 33

Hatschek, B. Studien zur Segmenttheorie des Wirbeltierkopfes. [2. Das primitive Vorderende des Embryos.] Morph. Jahrb. Leipzig 39 1909 (497– 525) 2 Taf. 34

Hatschek, B. Studien zur Segmenttheorie des Wirbeltierkopfes. 3. Mitt.: Ueber das Akromerit und über echte Ursegmente bei *Petromyzon*. Morph. Jahrb. Leipzig 40 1909 (480–499) 2 Taf.

Held, Hans. Die Entwicklung des Nervengewebes bei den Wirbeltieren. Leipzig (J. A. Barth) 1909 (ix + 378) 53 Taf. 28 cm. 30 M. 36

Held, Hans. Untersuchungen über den feineren Bau des Ohrlabyrinthes der Wirbeltiere. II. Zur Entwicklungsgeschichte des Cortischen Organs und der Macula acustica bei Säugetieren und Vögeln. Leipzig Abh. Ges. Wiss. math. phys. Kl. 31 1909 (193–294) 18 Taf. 37

Hoenig, Toni. Beiträge zur Höhlenkunde Böhmens. Graz Mitt. Höhlenkde. 2 1909 (12–15).

Hoffmann, Ludwig. Welche Züchtungsgrundsätze lassen sich aus den Einrichtungen zur Förderung der Tierzüchtung in England feststellen? Diss. Giessen. Heide i. H. (o. V.) 1909 (iv. +

151). 24 cm. Auch als H. 4 der Arbeiten d. D. Ges. f. Züchtungskunde. Hannover (M. u. H. Schaper) 1909. 39

Hubrecht, A. A. W. Die Säugetierontogenese in ihrer Bedeutung für die Phylogenie der Wirbeltiere. Jena (G. Fischer) 1909 (v + 247). 24 cm. 7 M.

Jackel, O. Ueber die Klassen der Tetrapoden. Zool. Anz. Leipzig 34 1909 (193-212). 41

Johnston, J. B. The central nervous system of Vertebrates. Ergebn. Zool. Jena 2 1909 (1-170). 42

Kolmer, Walther. Über einen sekretartigen Bestandteil der Stäbchenzapfenschicht der Wirbeltierretina Vorl. Mitt. Arch. ges. Physiol. Bonn 129 1909 (35-45) 1 Taf. 43

Krauss, Friedrich. Ueber die interzellularen Verbindungen im Chorda-Gewebe. Erwiderung auf eine von F. H. Studnička veröffentlichte Abhandlung: "Die Natur des Chorda-Gewebes". (Anat. Anz. Bd 34, Nr. 3 u. 4, 1909). Arch. mikr. Anat. Bonn 74 1909 (139-142).

Laveran, A. et Pettit, A. La virulence des trypanosomes des Mammifères peut-elle être modifiée après passage par des Vertébrés à sang froid ? Paris C. R. Acad. sci. 149 1909 (329-332). 45

Lelièvre, Aug. et Retterer, Ed. Structure de la fibre musculaire du squelette des Vertébrés. Paris C. R. soc. biol. 66 1909 (602-605). 46

Livini, Ferdinando. Istogenesi del tessuto connettivo. Seconda comunicazione preliminare. Monitore zool. ital. Firenze 20 1909 (225–227). 47

Lortet et Gaillard, C. La faune momifiée de l'ancienne Egypte et recherches anthropologiques (3°, 4° et 5° séries). Arch. Muséum hist. nat. Lyon 10 1909 (p. spéc. 1-336).

Lubosch, W. Besprechung einer neuen Theorie der Licht- und Farbenempfindung nebst einem Excurs über die stammesgeschichtliche Entstehung des Wirbeltierauges. Morph. Jahrb. Leipzig 39 1909 (146-153).

Lucas, A. H. S. and Le Souëf, W. H. Dudley. The animals of Australia. Mammals, reptiles and amphibians. Melbourne and London 1909 8vo. (xi + 327) 1 pl. 50

†Lydekker, R. Vertebrate palaeontology in 1908. Sci. Progr. London 3 1909 (450-471).

Maignon, F. Influence du sexe et des saisons sur la glycogénie chez le chien, le cobaye, le pigeon et la carpe. Paris C. R. ass. franç. avanc. sci. (Lille) 1908 (88).

Müller, Erik. Om den morfologiska riktningen i anatomien jämte ett bidrag till extremiteternas morfologi hos ryggradsdjuren. [On the morphological tendency in anatomy with a contribution to the morphology of the limbs of the vertebrata.] Hygica, Stockholm Festband 1908 l No. 5 (63) pls.

[Nowikoff, M. М.] Новиковъ, М. М. Изследованія о хрящевой и костной тканяхъ. [Untersuchungen über das Knorpel- und Knochengewebe.] Moskva 1909 (iv + 157) 8 Taf. 26 cm. 54

Otto, Hugo. Ueber Stimmäusserungen der Tiere bei grossem Schmerze. Zool. Beob. Frankfurt a. M. 50 1909 (306-308).

Papin, Louis. Sur le mode de disparition du réseau veineux "cardinorénal" chez les Mammifères. Arch. zool. Paris ser. 5 1 1909 (Notes et Revues xiii-xviii. 57

Pappenheim, A. Einige interessante Tatsachen und theoretische Ergebnisse der vergleichenden Leukozytenmorphologie. Folia haematologica Leipzig 8 1909 (504-563). 56

Pardi, Francesco. Per la storia e la migliore conoscenza dei clasmatociti di Ranvier. Pisa Atti Soc. tosc. sc. nat. Mem. 25 1909 (59-86) 1 tav. 58

Parker, W. N. vide Wiedersheim.

Pettit, A. vide Laveran, A.

Piéron, Henri. Contribution à l'étude des phénomènes sensoriels et du comportement des Vertébrés inférieurs. Bul. inst. psych. internat. Paris 8 1908 (321-327); discussion: MM. Hachet-Souplet, Giard, Baron, Mile Drzewina.

[Ройакоv, Р. А.] Поляковъ, П. А. Основы гистологін съ элементами ембріологін человѣка и позвоночныхъ. Часть вторал. Вып. 1. Микроскопическая анатомія и ембріологія органовъ и системъ. [Grundlagen der Histo-

logie und Elemente der Embryologie des Menschen und der Wirbeltiere. 2-ter Teil. Lief. I. Mikroskopische Anatomie und Embryologie der Organe und Systeme.] Jurjev 1909 (609–1184). Lief. ii (1185–1820). 24 cm. 5.00 Rub.

Policard, A. Notes histophysiologiques sur la cellule hépatique. I. Les formations filamenteuses de la cellule hépatique de la Grenouille. Modifications pendant la digestion. Paris C. R. soc. biol. 66 1909 (352 etc.). 61

Poll, Heinrich. Zur Lehre von den 'sekundären Sexualcharakteren. Berlin SitzBer. Ges. natf. Freunde 1909 (331–358) 2 Taf. 62

Popoff, N. vide Bugnion, E.

Rawitz, Bernhard. Neue Methoden zur Untersuchung des Zentralnervensystems der Vertebraten. Zs. wiss. Mikrosk. Leipzig 26 1909 [1910] (337– 352) 1 Taf. 63

Regaud, Cl. Sur les formations mitochondriales de diverses espèces cellulaires. 1° dans le rein de Couleuvre (Tropidonotus viperinus) et de Grenouille (Rana viridis); 2° dans l'estomac du Chien. (Résumée.) Discussion M. d'Hardivillier. C. R. ass. anat. Paris 10 (Marseille 1908) Nancy 1908 (15-20). 64

Retterer, Ed. et Lelièvre, A. Structure du myocarde de quelques Vertébrés inférieurs. Paris C. R. soc. biol. 66 1909 (746-749). 65

Retterer, Ed. vide Lelièvre, Aug.

Ribbing, L. Die Unterschenkel- und Fussmuskulatur der Tetrapoden und ihr Verhalten zu der entspreehenden Arm- und Handmuskulatur. Lund Univ. Årsskr. N. F. 5 Afd. 2 No. 5 [= Fysiogr. Sällsk. Handl. N.F. 20 No. 5] 1909 (1-158).

Rogenhofer, Alois. Die Fauna der altägyptischen Mumiengräber. Wien Verh. ZoolBot. Ges. 59 1909 ((130)-(133)). 67

Roule, Louis. Étude sur les formes premières de la notocorde et sur les affinités naturelles des Chordés. Arch. zool. Paris sér. 4 10 1909 (447-546).

Salvi, G. Origine e significato delle arterie dell'arto addominale. Monitore zool. ital. Firenze 20 1909 (74-75). 69

Scheunert, A. Verdauung. IV. Besonderheiten der Verdauung bei Tieren mit mehrhöhligen Mägen (Wiederkäuer), Kaltblütern und Vögeln. [In: Handbuch der Biochemie... hrsg. v. Carl. Oppenheimer. Bd 3, 2. Hälftc.] Jena (G. Fischer) 1909 (153–170).

Schiefferdecker, P. Ueber Muskeln und Muskelkerne. Verh. Ges. D. Natf. Leipzig 80 (1908) II 2 1909 (518-521).

Schiefferdeeker, P. Muskeln und Muskelkerne. Leipzig (J. A. Barth) 1909 (ix + 317). 24 cm. 10 M. 72

Schimkewitsch, W. Lehrbueh der vergleichenden Anatomie der Wirbeltiere. Nach d. vermehrten russ. Ausg. ins Deutsche übertragen u. bearb. v. H. N. Maier u. B. W. Sukatsehoff. Stuttgart (E. Schweizerbart) 1910 [1909] (xi + 652). 27 em. 18 M. 73

Schlater, S. [vielmehr Gustav]. Zur Frage vom Ursprung der Chordaten nebst einigen Bemerkungen zu den frühesten Stadien der Primaten-Embryogenese. Anat. Anz. Jena 34 1909 (33-48 & 65-81).

Schumkow, K. G. Zur Morphologie der Gitterfasern der Leber. Anat. Anz. Jena 35 1909 (287–295). 75

Sommer, A. und Spee, F. Graf v. Allgemeine Entwicklungsgeschichte der Wirbelticre. Jahresber. Anat. Jena N.F. 14 (1908) Tl 2 1909 (201-262). 76

Spee, Ferdinand Graf v. vide Sommer, Alfred.

Sterzi, Giuseppe. Il sacco endolinfatico. Ricerche anatomiche ed embriologiehe. Morph. Jahrb. Leipzig 39 1909 (446–496) 3 Taf. 77

Studnička, Franz Karl. Vergleichende Untersuehungen über die Epidermis der Vertebraten. Anat. Hefte Wiesbaden Abt. I 39 1909 (1-267) 15 [8] Taf. 78

Studnička, F. K. Die Natur des Chordagewebes. Bemerkungen zu einer Arbeit von Friedrich Krauss (Archiv für mikroskopische Anatomie, Bd. 73.) Anat. Anz. Jena 34 1909 (81-91). 79

Studnička, F. K. Zu der "Erwiderung" von Friedrich Krauss auf meine Mitteilung über "Die Natur des Chordagewebes". Anat. Anz. Jena 34 1909 (580-582).

Theunissen, W. F. vide Ariens Kappers, 3.

Trinci, G. Sulle questioni concernenti le differenze morfologiche dei cromosomi di uno stesso nucleo. Osservazioni nei Vertebrati. Monitore zool. ital. Firenze 20 1909 (54-55).

Vialleton, Sur les arcs viscéraux et leur rôle topographique chez les Vertébrés. Arch. anat. microsc. Paris 10 1908 (1-122) 3 pls. 82

Vitali, Giovanni. L'articolazione mandibolare negli Anfibi, nei Rettili e negli Uccelli. Note anatomoembriologiche. Anat. Anz. Jena 34 1909 (207-224). 83

Vogt, H. vide Ariëns-Kappers, 6.

[Voskoboinikov, М. М.] Воскобойниковъ, М. М. Метамерія осевой части черепа. [Die Metameris des axialen Teil des Schädels.] Moskva, Dnevn. xii. Sjězda russ. jest. vrač. 1909–1910g. [Prot.] 1910 (288). 84

Wiedersheim, Rob. Vergleichende Anatomie der Wirbeltiere. Für Studierende bearb. 7., vielfach umgearb. u. stark verm. Aufl. des "Grundriss der vergl. Anatomie der Wirbeltiere". Jena (G. Fischer) 1909 (xx + 936) 1 Taf. 26 cm. 21 M. 85

Williston, S. W. The faunal relations of the early vertebrates. J. Geol. Chicago Ill. 17 1909 (389-402) tab. 87

†Želizko, J. V. Diluviale Fauna von Wolin in Südböhmen. Prag Bull. Ac. Sci. Franc. Jos. 14 1909 (147–162). 88

Zimmermann, Anton. Zur Kenntnis des elastischen Gewebes bei den niederen Wirbeltieren. Diss. Tübingen. Würzburg (Druck v. C. J. Beeker) 1909 (35) 1 Taf. 22 cm. 89

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I.—TITLES.

[Aleksandrov, K. P.] Александровъ, К. П. Рыболовство въ бассейни Волги выше Саратова. Вын. 1. Рыболовство въ 1. смотрительскомъ районъ. При Денарт. Земледълія. [Die Fischerei im Flussgebiet der Wolga oberhalb Saratow. Lief. 1. Die Fischerei im 1-ten Inspektionsrayon. Herausgeg. vom Depart. für Aekerbau.] St. Peterburg 1909 (2 + 98) 4 Kart. 25 cm.

Allen, E. J. Mackerel and sunshine. Plymouth J. Mar. Biol. Ass. 8 1909 (394-406). 2

Allen, William F. Distribution of the subcutaneous vessels in the tail region of *Lepisosteus*. Amer. J. Anat. Philadelphia Pa. 8 1908 (49-87).

Allison, Edith M. vide Cockerell, T. D. A.

Annandale, N. Report on the Fishes taken by the Bengal Fisheries Steamer "Golden Crown." Part I. Batoidei. Mem. Ind. Mus. Caleutta 2 No. I 1909 (1-58) pls. i-v appendix. 4

Anthony, R. Élevage du Zeugopterus punctalis Bl. au laboratoire maritime de Saint-Vaast-la-Hougue. Paris C. R. Acad. sci. 149 1909 (1156-1158). 5

Apstein, Carl. Die Bestimmung des Alters pelagisch lebender Fischeier. Berlin Mitt. D. Seefischereiver. 25 1909 (364-373). 6

Ayers, Howard and Worthington, Julia. The finer anatomy of the brain of Bdellostoma dombeyi. 1. The acustico-lateral system. Amer. J. Anat. Philadelphia Pa. 8 1908 (1-16) 8 pls. 7

Barbieri, Ciro. Neuromeri e somiti metaotici in embrioni di Salmonidi. Milano Atti Soc. ital. sc. nat. 47 (185-257) 2 tav. 8

(n-11091 b)

Baudouin, Marcel. Mode d'attaque du Spratt (Clupea spratta) par le Lernacenicus sprattae Sow., Copépode parasite de l'œil de ce poisson. Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° partie 1908 (727–741).

Baudouin, M. Du mode d'attaque de la sardine (Clupea pilchardus W.) par un copépode parasite, le Lernacenicus sardinae M. B. en Vendée. Nantes Bul. soc. sci. nat. sér. 2 7 17 1907 (97-114).

Bayer, František. Nové zbytky R. Portheus Cope (Xiphactinus Leidy) z českého útvaru křídového. [Neue Reste von Portheus Cope (Xiphactinus Leidy) aus dem böhmischen Turon.] Prag Rozpr. České Ak. Frant. Jos. 1908 (12) 1 Taf.

Bean, B. A. The proper name of the American eel Anguilla rostrata (Le Sucur). Science New York N.Y. 29 1909 (871-872). 12

Bean, Barton A. and Weed, Alfred C. Description of a new skate (Dactylobatus armatus) from deep water off the southern Atlantic coast of the United States. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 36 No. 1682 1909 (459-461) pl. xxxviii.

Bean, Barton A. and Weed, Alfred C. Descriptions of two new species of electric rays, of the family Narcobatidae, from deep water off the southern Atlantic coast of the United States. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 36 No. 1694 1909 (677-680).

Beaufort, Lieven Ferdinand de. De zwemblaas der Malacopterygii. [Die Schwimmblase der Malacopterygii.] Leiden (E. J. Brill) 1908 (132) 1 Tat. 24 cm. Beaufort, L. F. de. Die Schwimmblase der Malacopterygii. Morph. Jahrb. Leipzig 39 1909 (526-644) 1 Taf.

Beccari, Nello. Sopra alcuni rapporti del fascicolo longitudinale posteriore con i nuclei di origine dei nervi oculomotore e trocleare nei Teleostei. Monitore zool. ital. Firenze 20 1909 (242-247).

Beccari, N. Le cellule dorsali o posteriori dei Ciclostomi. Ricerche nel Petromyzon marinus. Monitore zool. ital. Firenze 20 1909 (308-323) 2 tav. 17

[Bělousov, N.] Бѣлоусовъ, Н. Строеніе жаберной перепонки и нервныя окончанія въ мышпахъ рыбъ. [La structure intime de la membrane operculaire et des terminaisons nerveuses dans les muscles striés des poissons.] Charikov Trav. Soc. nat. 42 1907–1908 [1909] (96–108) 1 Taf.

Berg, L. S. Quelques remarques concernant l'ouvrage de M. V. Gratzianow "Un essai de révision des Poissons de la Russie." (Russ.) St. Peterburg Ann. mus. zool. 13 1908 [1909] (437-470)

Berg, L. Beschreibung von Diplophysa labiata herrensteini nov. subsp. (Cobitidini) aus Turkestan. St. Peterburg Ann. mus. zool. 14 1909 (10-11).

Berg, L. Ueber die Gattungen Acanthogobio Herzst. und Hemibarbus Blkr. St. Peterburg Ann. mus. zool. 14 1909 (103-106). 21

Berg, L. S. Bemerkungen über die Gattung Nematobramis Blgr. St. Peterburg Ann. mus. zool. 14 1909 (xliii). 22

[Berg, L. S.] Бергъ, Л. О. Рыбы бассейна Амура. [Ichthyologia Amurensis.] St. Peterburg Mém. Ac. sc. Ser. 8 24 9 1909 (i-vi + 1-270) 3 Taf. 23

Biělooussow, N. vide Bělousov, N.

Blaizot, L. Recherches sur l'évolution de l'utérus d'Acanthias vulgaris Risso. Paris Mém. soc. zool. 22 1909 (1-48). 24

Blaizot, L. Note sur l'origine des cellules libres trouvées dans l'épithé lium utérin d'Acanthias vulgaris R. avant le début de l'hystolyse épitheliale. C. R. ass. anat. Paris 10 (Marseille 1908) Nancy 1908 (30-31). 25

Blosser, Christian B. The marine fishes. (Reports on the Expedition to British Guiana of the Indiana University and the Carnegie Museum, 1908. No. 3.) Pittsburg Pa. Ann. Carnegie Mus. 6 1909 (295-300) pl. x-xii. 26

Bolten, D. G. J. Visschen als muskietenverdelgers. [Fische als Moskitentilger (in Surinam).] Paramaribo Bull. Landb. West-Indie 19 1909 (1-7) 1 Taf. 27

Borcea, I. Sur les masses mésodermiques intermédiaires et leurs dérivés chez les Téléostéens. Paris C. R. Acad. sci. 149 1909 (637-640). 28

Borcea, I. Sur l'origine du cœur, des cellules migratrices et des cellules pigmentaires chez les Téléostéens. Paris C. R. Acad. sei. 149 1909 (688-689).

Borcea, I. Quelques observations sur la circulation embryonnaire chez les Téléostéens. Paris Bul. soc. zool. 34 1909 (189–191).

[Borodin, N. u. Suvorov, E.] Бородинъ, Н. и Суворовъ, Е. Каспійскія сельди и ихъ промыселъ. [Die Heringe des Kaspischen Meeres und dere Fang.] In: Arbeiten der Kaspischen Expedition des Jahres 1904. Zweiter Band. 1908 (iv + 372) 1 Karte. 31

Boulenger, G. A. Catalogue of the freshwater fishes of Africa in the British Museum (Natural History). Vol. I. London: Printed by order of the Trustees 1909.

Boulenger, G. A. A list of the freshwater fishes, batrachians and reptiles obtained by Mr. J. Stanley Gardiner's expedition to the Indian Ocean. London Trans. Linn. Soc. 12 1909 (291-300).

Boulenger, G. A. Zoological Results of the Ruwenzori Expedition, 1905– 1906. Part iii. Pisces, Batrachia and Reptilia. London Trans. Zool. Soc. 19 1909 (237–252) Pls. viii and ix. 32b

Boulenger, G. A. Description of a new freshwater Gobiid fish from the Niger. Ann. Mag. Nat. Hist. London 3 1909 (42). Boulenger, G. A. Descriptions of new freshwater fishes discovered by Mr. G. L. Bates in South Cameroon. Ann. Mag. Nat. Hist. London 4 1909 (186-188).

Boulenger, G. A. Descriptions of three new fishes from Portuguese Guinea. Ann. Mag. Nat. Hist. London 4 1909 (429-431). 35

Boulenger, G. A. Description of a new Characinid fish from Mexico. Ann. Mag. Nat. Hist. London 4 1909 (497-498).

Boulenger, G. A. Catalogue des Poissons du Congo du Musée d'Histoire naturelle de Luxembourg. Faune du Sarkuru à Kondué. (Collection Ed. Luja.) Luxembourg 1909 (1-16). 36a

Boulenger, G. A. On a second Collection of Reptiles, Batrachians, and Fishes made by Dr. E. Bayon in Uganda. Ann. Mus. Civ. Genova Ser. 3 4 1909 (1-6).

Bounhiol, J. P. Quelques faits biologiques relatifs aux poissons comestibles des côtes de l'Algérie. Paris C. R ass. franç. avanc. sci. 36 (Reims 1907) 2° Partie 1908 (591-594).

Braus, Hermann. Experimentelle Untersuchungen über die Segmentalstruktur der motorischen Nervenplexus. Anat. Anz. Jena 34 1909 (529-551).

Brohl, Engelbert. Die sogenannten Hornfäden und die Flossenstrahlen der Fische. Jenaische Zs. Natw. 45 1909 (345–380) 2 Taf.

Brohmer, Paul. Der Kopf eines Embryos von *Chlamydoselachus* und die Segmentierung des Selachierkopfes. Jenaische Zs. Natw. 44 1909 (647– 698) 4 Taf.

Brunati, Roberto. Sopra alcune ossa faringee fossili spettanti al genere Labrus e considerazioni sopra le ossa faringee di alcuni Labridi viventi nel Mediterraneo. Milano Atti Soc. ital. sc. nat. 48 1909 (103-114) 1 tav.

Bruyère, Henri. Le sandre commun ou Fogosch. Paris Bul. soc. agricult. 21 1909 (45-47).

Buchtala, Hans. Elementaranalyse der Eihäute von Scyllium stellare, Pristiurus melanostomis und

Scyllium canicula und Verteilung des Stickstoffes in denselben. Hoppe-Seylers Zs. physiol. Chem. Strassburg 56 1908 (11-17).

Burlend, T. H. vide Parker, W. N.

Burne, R. H. Exhibition of, and remarks upon, certain elastic mechanisms in fishes and reptiles. London Proc. Zool. Soc. 1909 (201-204). 44

Burne, R. H. Exhibition of specimens of adaptive structures for the respiration of air in some aquatic invertebrates and tropical freshwater fishes. London Proc. Zool, Soc. 1909 (545).

Burne, R. H. The anatomy of the olfactory organ of Teleostean fishes. London Proc. Zool. Soc. 1909 (610-663).

Buytendijk, F. J. J. Over de veranderingen in het bloedserum van haaien na verbloeding. [On the changes in the blood serum of sharks after bleeding.] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (261–264) (Dutch); Amsterdam Proc. Sci. K. Akad. Wet. 12 1909 (377–380) (English).

Buytendijk, F. J. J. Over de samenstelling der urine van haaien bij normale en versterkte diurese. [On the constitution of the urine of sharks with normal and increased diuresis.] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (264-267) (Dutch); Amsterdam Proc. Sci. K. Akad. Wet. 12 1909 (380-383) (English).

Byrne, L. W. vide Holt, E. W. L.

Callaway, Otis vide Cockerell, T. D. A.

Cépède, Casimir. Observations et remarques sur la nourriture de la sardine. Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° Partie 1908 (774-778).

Cépède, C. La Myxosporidiose des Anguilles dans les eaux douces, saumâtres et salées du Boulonnais. Boulogne Bul. soc. Acad. 8 1908 (17-24). 50

Cépède, C. Contribution à l'étude de la biologie de la sardine (Alosa sardina Risso). Feuille jeunes natural. Paris 38 1908 (54-56). Chaine, J. Observations sur l'appareil urinaire de la Vive. (Trachinus draco L.) Bordeaux Proc. verb. soc. sei. phys. nat. 1909 (5-6).

Chatton, Edouard. Un amibe, Amæba mucicola n. sp. parasite desbranchies des Labres, associé à une Trichodine. Paris, C. R. soc. biol. 67 1909 (690-692). 53

Chaudhuri, B. L. Description of two new species of *Caranx* from the Bay of Bengal. Rec. Ind. Mus. Calcutta 3 pt. ii 1909 (141-143). 54

Cligny, A. Sur un nouveau genre de Zéidés. Paris C. R. Acad. sci. 148 1909 (873-874). 55

Cockerell, T. D. A. The Cyprinid subfamily Chrondrostominae. Washington D.C. Proc. Biol. Soc. 22 1909 (209-210).

Cockerell, T. D. A. The scales of the Cobitid and Homalopterid fishes. Washington D.C. Proc. Biol. Soc. 22 1909 (205-207). 57

Gockerell, T. D. A. On the validity of the North American Cyprinid genus Notemigonus. Washington D.C. Proc. Biol. Soc. 22 1909 (211-213). 58

Cockerell, T. D. A. The nomenclature of the American fishes usually called *Leuciscus* and *Rutilus*. Washington D.C. Proc. Biol. Soc. 22 1909 (215-217).

Cockerell, T. D. A. A fossil garpike from Utah. Science New York N.Y. N. Ser. 29 1909 (796). 60

Cockerell, T. D. A. and Allison, Edith M. The scales of some American Cyprinidae. Washington D.C. Proc. Biol. Soc. 22 1909 (157-163) pl. 61

Cockerell, T. D. A. and Callaway, Otis. Notes on scales of fishes. The herbivorous Cyprinidae. Washington D.C. Proc. Biol. Soc. 22 1909 (121– 123). 62

Gockerell, T. D. A. and Gallaway, O. Observations on the fishes of the genus *Notropis*. Washington D.C. Proc. Biol. Soc. 22 1909 (189–196).

Cockerell, T. D. A. vide Evermann, B. W.

Cole; F. J. A monograph on the general morphology of the Myxinoid fishes, based on a study of Myxine.

Part III. Further observations on the skeleton. Edinburgh Trans. R. Soc. 46 1909 (669-681). 64

Collett, R. Fiske indsamlede under "Michael Sars's" Togter i Nordhavet 1900–1902. [Fische während der Fahrten des "Michael Sars" im Nordmeer 1900–1902 gesammelt.] Rep. Norw. fish. Bergen 2 No. 3 (1909) (151) pls. i–ii. 65

Condorelli, Mario e Perrando, G. G. Notizie sul Carcharodon carcharias catturato nelle acque di Augusta, etc. Roma Boll. Soc. zool. ital. Ser. 2 10 1909 (164-183).

Coquidé. La pêche à la Morue. Bul. Inst. océan. Monaco 153 1909 (24 p.). 67

Crettiez, T. De la culture de l'Omble-Chevalier. [Salvelinus umbla I..] du lac Léman. Métis et hybrides de ce salmonide. Bul. Suisse Pêche 8 1908 (4-7 26-29). 68

Dahl, Knut. The scales of the herring as a means of determining age, growth and migration. Rep. Norw. fish. Bergen 2 No. 6 (1909) (36) pls. i-iii. 69

Dahl, Knut. Vor kundskab om aalens forplantning og vandringer. [Unsere Kenntnis von der Fortpflanzung und den Wanderungen des Aals.] Bergen Naturen 33 1909 (20-29). 70

Damas, D. Contribution à la biologie des Gadides. København Proc.-verb. Explor. Mer 10 1909 (1-277) 21 pls. 71

Damiani, Giacomo. Su alcuni rari Scombridi dell'isola d'Elba. Riassunto. Roma Boll. Soc. zool. ital. Ser. 2 10 1909 (104-116). 72

Danois, E. Sur la présence de Gobius pictus Malm en France. Paris Bul. soc. zool. 34 1909 (86). 73

Demelle, A. vide Grynfeltt, E.

[Derjugin, K. М.] Дерюгинт, К. М. Строеніе и развитіе плечеваго пояса и грудныхъ плавниковъ у костистыхъ рыбъ. [Der Bau und die Entwickelung des Schultergürtels und der Brustflossen bei Teleostiern.] St. Peterburg Trav. labor. zool. 20 = Trav. Soc. nat. 39 4 1909 (1-148) 7 Taf. 74

1111

Diamare, Vincenzo. Sui rapporti della vena porta e delle arterie splancniche in Scyllium catulus e Torpedo marmorata. Contributo all'anatomia splancnica negli elasmobranchi. Nota riassuntiva. Anat. Anz. Jena 34 1909 (522-559).

Dietz, P. A. Mededeeling over Myotomen bij Teleostei. [Ueber den Bau der Myotomen der Teleostei.] Helder Tijdschr. Ned. Dierk. Ver. Ser. 2 11 1909 (xxv-xxvii). 76

Dollo, Louis. Les Poissons Voiliers. Zool. Jahrb. Jena Abt. f. Syst. 27 1909 (419-438). 77

Dollo, L. Cynomacrurus piriei, poisson abyssal nouveau recucilli par l'Expédition Antarctique Nationale Ecossaise. Edinburgh Proc. R. Soc. 29 1909 (316–326). 78

Dollo, L. Nematonurus lecointei, poisson abyssal de la "Belgica" retrouvé par l'Expédition Antarctique Nationale Ecossaise. Edinburgh Proc. R. Soc. 29 1909 (488–498). 78a

Dollo, L. Les Téléostéens à ventrales abdominales secondaires. Wien Verh. ZoolBot. Ges. 59 1909 ((135)–(140)). 79

Downey, Hal. The lymphatic tissue of the kidney of Polyodon spathula. Folia haematologica Leipzig 8 1909 (415-466) 1 Taf.

Droogleever Fortuyn, A. B. Over de motorische facialis- en abducens-kern von Lophius piscatorius. [On the motor facialis- and abductor-nucleus of Lophius piscatorius.] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 17 1909 (905-908) 1 pl. (Dutch); Amsterdam Proc. Sci. K. Akad. Wet. 12 [1909] (44-47) 1 pl. (English). 81

Drouin de Bouville, R. Influence des variations thermiques brusques sur les œufs, alevins et jeunes sujets de Salmonides. Paris C. R. soe. biol. 65 1908 (259-261).

Drouin de Bouville, de. Maladie des abcès du Barbeau (Myxoboliasis tuberosa). Nancy Bul. soc. sei. nat. sér. 3 9 1908 (1909) (525-548).

Drzewina, Anna. Leucocytes à granulations acidophiles dans le sang des Poissons téléostéens. Paris C. R. soc. biol. 66 1909 (514-516).

Drzewina, Anna. Epithélium et glandes de la Torpille. Paris C. R. soc. biol. 66 1909 (570–571). 85

Drzewina, A. La préhension des aliments par les Poissons. Bul. inst. psych. internat. Paris 8 1908 (328–330).

Duncker, Georg. Pisces, Tl 1: Syngnathidae. (Die Fauna Südwest-Australiens, hrsg. v. W. Michaelsen u. R. Hartmeyer. Bd 2, Lfg 15.) Jena (G. Fischer) 1909 (233-250).

Durbin, Marion Lee. A new genus and twelve new species of Tetragonopterid Characins. (Reports on the Expedition to British Guiana of the Indiana University and the Carnegie Museum 1908 No. 2.) Pittsburg Pa. Ann. Carnegie Mus. 6 1909 (55–72).

Eastman, Charles Roehester. Mylostomid palatal dental plates. Cambridge Mass. Bul. Mus. Comp. Zool. Harvard Coli. 52 1909 (259-269) i-iii.

Eastman, C. R. Mylostomid dental plates. Science New York N.Y. 29 1909 (997–998). 90

Eckstein, K. Pisces für 1900, 1901. [Jahresberichte.] Arch. Natg. Berlin 71 Bd 2 H. 1 1905 [1909] IV (72 + 92).

Eckstein, K. Pisces für 1902–1905. [Jahresberichte.] Arch. Natg. Berlin 72 Bd 2 H. 1 1906 (1909) IV (1-114 1-112 1-134 1-136). 92

Eglit, P. I. vide Lobedincev, A. A.

Ehrenbaum, E. Eier und Larven von Fischen. Tl 2. [In: Nordisches Plankton, Lfg 10.] Kiel u. Leipzig (Lipsius & Tischer), 1909 (217-413 + I-IV). 93

Eidsvaag, Edvard. Havtemperatur og Fiskeri. [Meerestemperatut und Fischereien.] Bergen Norsk Fisket. 28 1909 (396–401 428). 94

Eigenmann, Carl H. Preliminary descriptions of new genera and species of tetragonopterid characins. (Zoological results of the Thayer Brazilian expedition.) Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 52 1908 (91–106).

Eigenmann, Carl H. Some new genera and species of fishes from British Guiana. (Reports on the Expedition to British Guiana of the Indiana University and the Carnegie Museum 1908. No. 1.) Pittsburg Pa. Ann. Carnegie Mus. 6 1909 (4-54).

Eigenmann, Carl H. The freshwater fishes of Patagonia and an examination of the Archiplata-Archhelenis theory. Rep. Princeton Univ. Exp. Patagonia 1896-1899; Princeton N.J. 3 (Zoology) 1909 (225-374 with tabs. fig.) fold. map pls. xxx-xxxvii. 97

Elmassian, M. Une nouvelle coccidie et un nouveau parasite de la tanche. Arch. zool. Paris (sér. 5) 2 1909 (229-270). 98

[Emelianenko, P.] Емельяненко, II. Опредѣленіе возраста рыбы. [Die Bestimmung des Alters bei Fischen.] Naturfreund St. Peterburg 4 1909 (149– 153). 99

Engel, Heinrich. Die Zähne am Rostrum der Pristiden. Zool. Jahrb. Jena Abt. f. Anat. 29 1909 (51-100) 4 Taf.

Engmann, P. Betrachtungen zu W. Köhlers "Untersuchungen über das Schaumnest und den Schaumnestbau der Osphromeniden." Bl. Aquarienkunde Stuttgart 20 1909 (87-91).

Evans, W. The Deal fish or Vaagmaer, Trachypterus arcticus (Brünn), on the coast of East Lothian. Ann. Scot. Nat. Hist. Edinburgh 1909 (20-22).

Evermann, Barton Warren and Cockerell, Theodore D. A. Descriptions of three new species of Cyprinoid fishes. Washington D.C. Proc. Biol. Soc. 22 1909 (185–187).

Evermann, Barton Warren and Goldsborough, Edmund Lee. Notes on some fishes from the Canal Zone. Washington D.C. Proc. Biol. Soc. 22 1909 (95–103).

Evermann, Barton Warren and Nichols, John Treadwell. Notes on the fishes of Crab creek, Washington, with description of a new species of trout. Washington D.C. Proc. Biol. Sqc. 22 1909 (91-94) pl. 105

Evermann, Barton Warren and Radcliffe, Lewis. Notes on a Cyprinodont (Orestias agassizii) from central Peru. Washington D.C. Proc. Biol. Soc. 22 1909 (165-170).

Evermann, Barton Warren ville Jordan, David Starr.

Fage, Louis. Étude de la variation chez le rouget (Mullus barbatus L., M. surmuletus L.). Arch. zool. Paris sér. 5 1 1909 (389-445).

Fatio, Victor. La bouvière "Rhodeus amarus" à Genève. Arch. Sci. Phys. Genève (4) 20 1906 (680-686). 108

Fatio, V. Hybride de Squalius caoedanus et Alburnus alborella du lac de Lugano. Locarno Boll. Soc. tic. Sci. Nat. 2 1905 (9-14) 1 Tav. 109

[Faussek, V. A.] Фаусекъ, В. А. Отложенія гуанина у пауковъ (Araneina). [Ueber die Ablagerungen des Guanins bei den Spinnen (Araneina).] St. Peterburg Mém. Ac. Sc. Ser. 8 24 3 1909 (58) Taf. i-iv.

Favaro, Giuseppe. Pisces (Fische).
[Forts.] (H. G. Bronn's Klassen u.
Ordnungen des Tierreichs, Bd 6,
Abt. 1, Lfg 29-31.) Leipzig (C. F.
Winter) 1909 (439-486) Taf.

Fibich, Stanislaw. Choroby ryb. [Les maladies des poissons.] Okóln. ryb. Kraków 1909 (62-75 132-142 178-185 231-239).

Fibich, St. Choroby infekcyjne ryb. [Les maladies contagicuses des poissons.] Przegl. weter. Lwów 24 1909 (85-88 117-121).

Fiebiger, Josef. Ueber Coccidien in der Schwimmblase von Gadus-Arten. (Vorläufige Mitteilung.) Wien Ann. NatHist. Hofmus. 22 1907–1908 (124– 128).

Fiebiger, J. Ueber Protozoen als Parasiten der Fische. Wien Verh. ZoolBot. Ges. **59** 1909 ((32)-(48)). **115**

Fiebiger, J. 3. Jahresbericht des Institutes für Fischkrankheiten an der Wiener Tierärztlichen Hochschule. Oest. FischcreiZtg Wien 6 1909 (6-8).

Findeis, Guido jun. Kann man Seewasser-Kärpflinge (Cyprinodon fasciatus) an Süsswasser gewöhnen? Bl. Aquarienkunde Stuttgart 20 1909 (65-67). Fischer-Sigwart, H. Aus der Schutzzone von Sempach. Verh. Schweiz. Natf. Ges. Aarau 87 1905 (57-59); Arch. Sci. Phys. Genève C. R. 87 Sess. 1904 (67-69); Arch. Sci. Phys. Genève (4) 18 1904 (370-372).

Forbes, Stephen A. On the general and interior distribution of Illinois fishes. [Reprint, with minor changes, of a chapter in the introduction to "The fishes of Illinois" by S. A. Forbes and R. E. Richardson.] Urbana Bull. Ill. Lab. Nat. Hist. 8 1909 (381-437) maps.

Forel, F. A. La pêche du Léman. Arch. Sci. Phys. Genève (4) 22 1906 (188-189).

Fowler, Henry W. A new species of fish of the genus Atopichthys, with notes on New Jersey fishes. Philadelphia Pa. Proc. Acad. Nat. Sci. 61 1909 (406–408).

Fowler, H. W. A synopsis of the Cyprinidae of Pennsylvania. Philadelphia Pa. Proc. Acad. Nat. Sci. 60 (1908)1909 (517-553) pl. xxvii. 122

Fowler, H. W. The fishes of New Jersey. Annual Report of the New Jersey State Museum Trenton 1905 1906 (35-477) pl. 123

Fowler, H. W. A supplementary account of the fishes of New Jersey. Annual Report of the New Jersey State Museum Trenton 1906 1907 (251-350) pl. 124

Fowler, H. W. Further notes on New Jersey fishes. Annual Report of the New Jersey State Museum Trenton 1907 1908 (120-189) pl. 125

Fowler, H. W. Note on some New Jersey fishes. Science New York N.Y. 29 1909 (79).

Fowler, H. W. Notes on fishes at Corson's Inlet, New Jersey. Science New York N.Y. 29 1909 (544). 127

Fowler, H. W. Fundulus luciae again in New Jersey. Science New York N.Y. 30 1909 (526).

Fowler, H. W. The smooth hound, and some other fishes in New Jersey. Science New York N.Y. N. Ser. 30 1909 (815).

Franz, Viktor. Die Eiproduktion der Scholle (Pleuronectes platessa L.).

(Arb. d. D. wiss. Kommission f. d. intern. Mecresforschung. B. 11.) Wiss. Mecresunters. Kiel (N.F.) 9 Abt. Helgoland 1909 (58-141) 9 Taf. 180

Franz, V. Die Scholle, ein Nutzfisch der deutschen Meere. Meereskunde Berlin 3 H. 12 1909 (1-37). 0,50 M.

[Fritsch und Kafka, I.] Фричъ и Кафка, I. Краткое наставление къ раціональному разведенію карновъ. [Kurze Anleitung zur rationellen Karpfenzueht.] Uebers. a. d. Deutsch. von E. Grimm unt. d. Red. u. mit Anmerk. v. O. A. Grimm. St. Peterburg 1909 (32). 26 cm. 132

Fritsche, Ernst. Die Entwicklung der Thymus bei Spinax niger. Zool. Anz. Leipzig 35 1909 (85-93).

Fuhrmann, O. La Piscicultura negli Stati Uniti. Relazione. Riv. mens. Pesca Napoli 11 1909 N. 1-2-3 (51-64) N. 7-8 (160-164). 134

Fuhrmann, O. Scleropages formosum und über Phreatobius cisternarum. Verh. Schweiz. Natf. Ges. Aarau 88 1905 (50-51); Arch. Sci. Phys. Genève (4) 20 1906 (578-579).

Fuhrmann, O. Ueber die Entstehung des Neuenburger-, Murtner- und Bieler-Sees nebst Bemerkungen über die Fischereiverhältnisse derselben. Schweiz. Fischereiztg Pfäffikon 12 1904 (192–199).

Fuhrmann, O. Un cas d'hermaphrodisme chez un vengeron, Leuciscus rutilus, du lac de Neuchâtel. Neuchâtel Bul. Soc. Sci. Nat. 36 1908-09 1910 (82-85).

Garstang, Walter. The distribution of the plaice in the North Sea, Skagerak and Kattegat, according to size, age and frequency. København Rap. et proc.-verb. explor. mer. 11 1909 (1-133) 6 pl. and 6 figs.

Gast, Reinhard. Die Entwickelung des Oculomotorius und seiner Ganglien bei Selachier-Embryonen. Mitt. zool. Stat. Neapel Berlin 19 1909 (269-444) 5 Taf. 139

Gauss-Garády, Viktor v. Unsere Makrele in neuer biologischer Beleuchtung. Oest. FischereiZtg Wien 6 1909 (169-170). Gensoul, J. Note sur deux poissons hybrides, Gardon et Brême bordelière. (Leuciscus rutilus et Blicca bjærkna. Gardon et Rotengle Leuciscus rutilus et Scardinius erythrophthalmus). Autun Bul. soe. sei. nat. 21 1908 (Proc.-verb. 107-109).

Giacomini, Ercole. I corpi postbranchiali nelle cicche e nelle Anguille adulte. Monitore zool. ital. Firenze 20 1909 (88-92).

Giacomini, Ereole. Il sistema interrenale e il sistema cromaffine (feoeromo) nelle Anguille adulte, nelle cieche e nei leptocefali. Monitore zool. ital. Firenze 20 1909 (92-93). 143

Giacomi, Ercole. Il sistema interrenale e il sistema cromaffine (feocromo) in altre specie di Murenoidi. Archivio ital. Anat. Embriol. Firenze 8 1909 (237-245).

Giaja, Jean. Sur l'ablation de la vessie natatoire des poissons. Paris C. R. soe. biol. 65 1908 (125-126). 145

Gibson, W. T. The development of the hypochord in *Raia batis*; with a note upon the occurrence of the epibranchial groove in amniote embryos. Anat. Anz. Jena 35 1909 (407-428).

Gilchrist, J. D. F. & Wardlaw-Thompson, W. Description of fishes from the Coast of Natal. Pt. 2. Cape Town Ann. S. Afric. Mus. 6 1909 (213-279).

Gill, Theodore. The millers-thumb and its habits. Washington D.C. Smithsonian Inst. Misc. Collect. Q. 52 1908 (101-116). 148

Gill, T. N. Angler fishes: Their kinds and ways. Washington D.C. Smithsonian Inst. Rep. 1908 1909 (565-615).

Gill, T. N. Origin of fresh-water faunas. [Abstract.] Report of the Eighth International Geographic Congress Washington D.C. 1904 1905 (617).

Gill, T. N. The selachians admitted as a distinct class. Science New York N.Y. 29 1909 (193-194). 151

Godon, J. Contributions à la faune des Vertébrés de la région du Nord. Feuille jeunes natural. Paris 38 1908 (83-84 142). Goldsborough, Edmund Lee vide Evermann, Barton Warren.

Goodrich, E. S. A Treatise on Zoology. Edited by Sir Ray Lankester, K.C.B., M.D., LL.D. F.R.S. Part IX. Vertebrata Craniata (First Fascilet Cyclostomos and Fishes). London 1909. 153

G[rieg], J. Legemstemperaturen hos fiske og andre sjødyr. [Die Körpertemperatur bei Fischen und anderen Meertieren.] Bergen Naturen 33 1909 (286-287).

Grönwall, K. A. vide Malling, C.

Gross, Otto. Transplantations-Versuehe an Hartgebilden des Integuments und der Mundsehleimhaut bei Telcostiern und Amphibien. Basel Phil. Diss. 1905-06 (88). 8vo. 155

Grynfeltt, E. Sur le sphincter de l'iris chez quelques Téléostéens. C. R. ass. anat. Paris 10 (Marseille 1908) Nancy 1908 (102–104).

Grynfeltt, E. et Demelle, A. Recherches anatomiques et histologiques sur l'opercule pupillaire des Poissons. Bibliogr. anat. Nancy 18 1908 (119-135). 156a

Günther, Albert C. L. G. Andrew Garrett's Fische der Südsee, beschrieben u. redigirt. H. 8. (Journal des Museum Godeffroy, H. 16.) Hamburg 1909 (i-iv 261-388) 20 Taf. 157

Günther, A. The type of Exocoetus exiliens (L. Gmel). Ann. Mag. Nat. Hist. London 3 1909 (147-149). 157a

Guitel, Frédéric. Sur l'expulsion des œufs chez l'*Entelurus acquareus* Linné. Arch. zool. Paris sér. 4 9 1908 (N. et R. xxiv-xxix).

Gulia, Giovanni. Sur la découverte du Cephaloptera giorna Rasso dans les eaux maltaises. Paris Bul. soc. zool. 34 1909 (7-8). Discussion: M. Pellegrin. 159

Gulia, Giovanni. Addition à la faune iehthyologique maltaise. Paris Bul. soc. zool. 34 1909 (191–192). 160

Guyénot, E. Contribution à l'étude anatomique et physiologique de la vessie natatoire des Cyprinidés. Besançon Mém. soc. hist. nat. 1905 (39).

Guyénot, Émile. Les fonctions de la vessie natatoire des poissons téléostéens. Bul. sei. France-Belgique Paris **43** 1909 (203–297). **162**

Haempel, O. Einiges zur Anatomie und Physiologie der Schwimmblase beim Aal und den Renken. Zool. Anz. Leipzig 34 1909 (381–384). 163

Haempel, O. Einiges zur Anatomie und Physiologie der Schwimmblase beim Aal und den Renken. Ocst. FischereiZtg Wien 6 1909 (219–220).

Hamling, J. G. Recently-discovered fossils from the Lower and Upper Devonian Beds of North Devon Trans. Devon. Assoc. 40 1908 (276–280).

Hammarsten, Olof. Ueber den Nervus collector bei den Teleostiern. Zool. Λnz. Leipzig 34 1909 (677–679).

Hankinson, T. L. Fish of Walnut lake. In: Hankinson, T. L. A biological survey of Walnut lake, Michigan. Lansing Mich. 1908 (198-216).

Hankinson, T. L. Data on stomach contents of fish taken in Walnut lake. In: Hankinson, T. L. A biological survey of Walnut lake, Michigan. Lansing Mich. 1908 (244-251). 168

Haseman, J. D. Campostoma brevis. Indianapolis Ind. Proc. Acad. Sci. 1905 1906 (161-163). 169

Hatschek, B. Studien zur Segmenttheorie des Wirbeltierkopfes. [2. Das primitive Vorderende des Embryos.] Morph. Jahrb. Leipzig 39 1909 (497-525) 2 Taf. 170

Hatschek, B. Studien zur Segmenttheorie des Wirbeltierkopfes. 3. Ueber das Akromerit und über eehte Ursegmente bei *Petromyzon*. Morph. Jahrb. Leipzig 40 1909 (480–499) 2 Taf. 171

Hefford, A. E. The proportional distribution of the sexes of plaice in the North Sea. København Rap. et proc.-verb. explor. mer 11 1909 (135-176) 1 Chart.

Helland-Hansen, B. Statistical research into the biology of the haddock and cod in the North Sea. København Rap. et proc.-verb. explor. mer 10 1909 (1-62).

Hendricks. Ueber den Reusenapparat an den Kiemenbögen des Riesenhaies. (Selache maxima Cuvier.) Bonn SitzBer. Ges. Natk. 1908 1909 med. natw. Ges. Münster (31-37). 174

Herwerden, M. van. Zur Magenverdauung der Fische. Hoppe-Seylers Zs. physiol. Chem. Strassburg 56 1908 (453-494).

Herwerden, M. van. Zuurafscheiding en enzymwerking in de maag van vissehen. [Säuresekretion und Enzymwirkung im Magen von Fischen.] Utrecht Onderz. Physiol. Lab. Ser. 5 9 1908 (15-58).

Hoek, P. P. C. I eftijd van den zalm af te leiden uit de structuur der schubben. [On this age of salmon to be deduced from the structure of the scales.] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (432-450) 2 pls. (Dutch); Amsterdam Proc. Sci. K. Akad. Wet. 12 1909 (485-502) 2 pls. (English).

Hoek, P. P. C. Wat het internationale onderzoek der zee ons reeds geleerd heeft. [Ueber dasjenige, was die internationale Meeresuntersuchung uns schon gelchrt hat.] Amsterdam Werk. Gen. Nat. Genees. Heelk. Ser. 2 6 2 1909 (118–135).

Hofer. Der Apron. Aspro vulgaris Cuv et Val.—Aspro apron Sieb. [Beschreibung, Verbreitung etc.] Schweiz. Fischereiztg Pfäffikon 16 1908 (2-7).

Hofer. Die Fischfauna des europäischen Russlands. Schweiz. Fischereiztg Pfäffikon 17 1909 (71-75 91-95 166-171).

Hofer. Glarnerische Gewässer und ihre Fische. Schweiz. Fischereiztg. Pfäffikon 17 1909 (261–264). 181

Holt, E. W. L. and Byrne, L. W. Preliminary note on some fishes from the Irish Atlantic Slope. Ann. Mag. Nat. Hist: London 3 1909 (279-280).

Hooper, D. Analysis of the oils produced by certain Indian Rays and other aquatic vertebrates. Mcm. Ind. Mus. Calcutta 2 1909 (Appendix).

Houssay, Frédéric. Sur les conditions hydrodynamiques de la forme ehez les poissons. Paris C. R. Acad. sci. 148 1909 (1076–1078). Houssay, Fr. Carènes et Poissons. Stabilisation par les nageoires. Rev. gén. sci. Paris 20 1909 (617-624). 184

Houy, Reinhard. Beiträge zur Kenntnis der Haftscheibe von Echeneis. Zool. Jahrb. Jena Abt. f. Anat. 29 1909 (101–138) 4 Taf.

Huitfeldt-Kaas, Hartvig. Hoorfor udvandre Fiskene fra Østensjøvandet? [Eine Massenauswanderung von Süsswasserfischen aus dem Østensjösee bei Christiania.] Bergen Norsk Fisket. 28 1909 (257–263).

Hussakof, L. A new goblin shark, Scapanorhynchus yordani, from Japan. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (257-262) pl. xliv.

Hussakof, L. The systematic relationships of certain American Arthrodires. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (263–272) pl. xlv.

Iches, Lucien. Un Ichthyomètre nouveau. Paris Bul. soc. nat. acclim. 55 1908 (184-186).

Jacino, Antonino. Uovo e larva di Trachypterus. Archivio zool. Napoli 3 fasc. 4 1909 (479-482) 1 tav. 190

Jackel, Otto. Fischreste aus den Mamfe-Schiefern. [In: Beiträge zur Geologie von Kamerun, bearb. v. C. Guillemain.] Berlin Abh. geol. Landesanst. (N.F.) H. 62 1909 [1910] (392-398) 1 Taf.

Järvi, T. H. Beobachtungen über die Grösse und das Alter der Aale in Binnengewässern Finlands. Helsingfors Medd. Soc. Fauna et Fl. Fenn 35 1909 (218–221).

Järvi, T. H. Über das Vorkommen des Aales im Wassersysteme des Kymi-Flusses (Finland). Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (222-226) Karte.

Järvi, T. H. Ein Fall von Hermaphroditismus bei *Lota vulgaris* Cuv. Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (226-227).

Järvi, T. H. Die kleine Maräne Coregonus albula L., als der Zwischenwirt des Dibotricephalus latus L. in den Seen Nord-Tawastlands (Finland). Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35, 1909 (62-67 mit 2 Fig.); Helsingfors Fisk. Tidskr. Finl. 17 1908 (250-257 mit 2 Fig.). [5419]. 195

Järvi, T. H. Maiti-ja mätipitoisia mateita. [Hermaphroditische Exemplare von *Lota vulgaris*.] Luonnon Ystävä Helsingfors 13 1909 (61–62).

Järvi, T. H. Ankeriaittemme elämi uusimpain tutkimusten valossa. [Das Leben der finländischen Aale im Lichte der neuesten Forschungen.] Luonnon Ystävä Helsingfors 13 1909 (89–101).

Johnston, Mary S. On a new specimen of the Jurassic Ganoid fish Pleuropholis lævissima, Egerton. Geol. Mag. London 6 1909 (309-311). 198

Johnstone, J. Report on experiments with marked fishes during the year 1908. Liverpool Proc. Trans. Biol. Soc. 23 1909 (117-126). 199

Johnstone, J. Plaice measurements made during 1908. Liverpool Proc. Trans. Biol. Soc. 23 1909 (127-136). 200

Johnstone, J. Internal parasites and diseased conditions of fishes. Liverpool Proc. Trans. Biol. Soc. 23 1909 (189-202). 200a

Joly de Sailly. Les échelles à poissons dans les eaux de Belgique. Paris Bul. soc. cent. aquicult. 21 1909 (173-182 205-215).

Jones, F. W. The fauna of Cocos-Keeling Atoll, collected by F. Wood Jones. London Proc. Zool. Soc. 1909 (132–160).

Jordan, David Starr. Ichthyology. [Record, second half of 1908.] Amer. Nat. New York N.Y. 43 1909 (560-567).

Jordan, David Starr and Evermann, Barton Warren. Descriptions of three new species of Cisco, or Lake Herring (Aryyrosomus), from the Great Lakes of America; with a note on the species of Whitefish. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 36 No. 1662 1909 (165-172). 204

Jordan, David Starr and Richardson, Robert Earl. A catalogue of the fishes of the island of Formosa or Taiwan, based on the collections of Dr. Hans Sauter. Pittsburg Pa. Mem. Carnegie Mus. 4 1909 (159-204) pls. lxiii-lxxiv.

Jordan, David Starr and Snyder, John Otterbein. Description of a new whitefish (Coregonus oregonius) from McKenzie river, Oregon. Washington D.C. Smithsonian Inst. Proc. U. S. Nation. Mus. 36 No. 1677 1909 (425-430).

Juday, Chancey and Wagner, George. Dissolved oxygen as a factor in the distribution of fishes. Madison, Trans. Wis. Acad. Sci. 16 1908 (17-22). 207

[Jurinskij, Т.] Юринскій, Т. Обзоръ весеннихъ фенологическихъ явленій природы въ Восточной Сибири въ 1905 и 1906 годахъ. [Uebersicht der phänologischen Frühjahrserscheinungen in Ostsibirien in den Jahren 1905 u. 1906.] Irkutsk Izv. Vost. Sib. otd. russ. geogr. Obšč. 38 1907 [1909] (32-63). 208

Kafka, I. vide Fritsch.

Kamada, T[akezo]. Nishin nagashiami gyogyō shiken. [Experiments on herring fishery.] Tokyo Suisan Koshujo Shiken Hokoku [Report of the Fisheries Institute] 5 1909 (1-15). 209

Kammerer, Paul. Fische im Seewasseraquarium und ihre Gewöhnung an Süsswasser. (II. III.) Bl. Aquarienkunde Stuttgart 20 1909 (166-168 179-182). 210

Kampen, P. N. van. Aanteekeningen omtrent de visscherij van Sumatra en Riouw. [Bemerkungen über die Fischerei von Sumatra und Riouw.] Buitenzorg Meded. Dep. Landb. Med. Visscherij-Station 3 1909 (1-29). 211

Kampen, P. N. van. Overzicht der hulpmiddelen bij de zeevisscherij van Java en Madoera in gebruik. [Uebersicht der Hilfsmittel für die Meeresfischerei, wie sie auf Java und Madura benutzt werden.] Batavia Medcdeelingen Visscherij-station 1 1908 (1-32). 212

[Knipowitsch, N. М.] Книповичь, Н. М. Отчеть о работахъвъ Балтійскомъ морѣ Н. М. Книповича и С. А. Павловича льтомъ 1908 г. по собиранію морской фауны для Зоологическаго Музея Имперагорской Академіи Наукъ. [Rapport sur les collections zoologiques faites pour le Musée Zoologique de l'Académie Imp. des Zoologique de l'Académie Imp. des Sciences par N. M. Knipowitsch et S. A. Pavlovič dans la mer Baltique durant l'été 1908.] St. Peterburg Ann.

Mus. zool. 14 1909 (0131-0245) av. une carte. 213

Köhler, W. Etwas vom Steinbeisser (Cobitis taenia L.). Bl. Aquarienkunde Stuttgart 20 1909 (517-521).

Kollmann, Eugène. Sur quelques résultats des recherches entreprises par l'Association internationale pour l'exploration de la mer du Nord. Rev. sci. Paris sér. 5 10 1908 (141-145).

Koningsberger, J. C. [Verslag over visscherij in Nederlandsch Indie.] [Bericht über Fischerei in Niederländisch Ost-Indien.] Jaarboek Departement v. Landbouw Nederl. Indie Batavia 1907 1908 (51-62). 216

Koutschine, I. B. vide Kučin, I. B.

[Kuðin, I. В.] Кучинъ, И. В. Матеріалы по рыбоводству и рыболовству въ Уральскомъ Краѣ. І. Пермское Зауралье. [Matériaux sur la pisciculture et la pêche dans la contrée de l'Oural. I. Partie transcuralienne du gouv. de Perm.] Ekaterinburg Bull. Soc. Oural. nat. 28 1909 (47–121 + 1–xliii).

Künstler, J. Amiurus nebulosus et Eupomotis gibbosus. Paris Bul. soc. nat. acclim. 55 1908 (238-244). 218

Laloy, L. La coulcur des poissons et sélection naturelle. Rev. sei. Paris sér. 5 8 1907 (809-810). 219

Lambe, Lawrence M. The fish fauna of the Albert shales of New Brunswick. Amer. J. Sci. New Haven Conn. Ser. 4 28 1909 (165-174). 220

Landmark, A. Unglaks i Fjord. [Junger Lachs in norwegischen Fjorden.] Bergen Norsk Fisket. 28 1909 (102–104).

Lanzi, Luigi. Osservazioni sopra certi elementi della lamella di rivestimento degli embrioni di alcuni Teleostei. Monitore zool. ital. Firenze 20 1909 (174-179) 1 tav. 222

Lanzi, L. Ricerche sui primi momenti di sviluppo degli Olostei (o Euganoidi) Amia calva Bonap. e Lepidosteus osseus L. Con speciale riguardo al cosìdetto ispessimento prostomale. Archivio ital. Anat. Embriol. Firenze 8 1909 (292-306) 4 tav. 223

Lanzi, L. Ricerche sui primi momenti di sviluppo di alcuni Teleostei. Con speciale riguardo al valore del cosìdetto ispessimento prostomale. Archivio ital. Anat. Embriol. Firenze 8 1909 (307-358) 4 fig. e 5 tav. 224

[Lawrow, S. D.] Лавровъ, С. Д. Къ вопросу о питаніи волженихъ рыбъ. [Ueber die Nahrung der Wolga-Fische.] Kazani Trd. Obšč. jest. 42 1 1909 (1-85 + 2).

[Lebedincev, A. A. u. Eglit, P. I.] Лебединцевъ, А. А. и Эглитъ, П. И. Успъпнина результаты разведенія ряпушки (Coregonus albula) въ Кавенномъ озеръ Пестово, Новгородской губерпіи. [Erfolgreiche Versuche mit der Zucht der kleinen Maräne (Coregonus albula) in dem fiskalisehen Sec Pestowo, Gouv. Novgorod.] Nikolsk Fischzucht St. Peterburg 12 1909 (1–88 mit 2 Karten).

Le Fort, Raymond. Le sandre commun (Leuciopercus-sandra-Perca leucioperca). Paris Bul. soc. nat. acclim. 56 1909 (22-30). 227

Léger, Louis. La costiase et son traitement chez les jeunes alevins de truite. Paris C. R. Acad. sci. 148 1909 (1284-1286); Ann. Univ. Grenoble Paris 21 1909 (437-440). 228

Lelièvre, Aug. vide Retterer, Ed.

Leonhardt, E. E. Die sinnlichen Wahrnehmungen der Fische. Natur u. Haus Stuttgart 17 1909 (252-255 261-266 283-287). 229

Leriche, Maurice.
Poissons paléocènes et éocènes de et éocènes de et éocènes des (Marne).
Lille
Ann. soc. géol. 37 1909 (229–265).
230

Leriche, M. Première note sur les Poissons carbonifères du nord de la France. Lille Ann. soc. géol. 37 1909 (266-281). 231

Levy, M. Einige Versuche über das Verhalten des gemeinen Stiehlings (Gasterosteus aculeatus) gegen Kochsalz-, Glaubersalz- und Bittersalzlösungen. Zool. Beob. Frankfurt a. M. 50 1909 (333-334).

Lo Bianco, Salvatore. La pesca della "Fragaglia" nel Golfo di Napoli durante gli anni 1906-1909. Riv. mens. Pesca Napoli 11 1909 (1-44). 233 [Lönnberg, Einar.] Några försvenska faunan nya fiskar. [Some fishes new to the fauna of Sweden.] Fauna och Flora Uppsala 3 1908 (113–118) pls. 234

Lubosch, W. Anpassungserscheinungen bei der Verkalkung des Selachierknorpels. Anat. Anz. Jena 35 1909 (1-8). 235

Lühe, Max. Ueber einen grossen Welsfang. Königsberg Schr. physik. Ges. 49 (1908) 1909 (387–388). 236

Lupu, Hélène. Régénération de l'épithélium intestinal du Cobitus fossilis. Arch. zool. Paris sér. 4 9 1908 (417-428).

Luther, Alexander. Ueber Triaenophorus robustus Olsson und Henneguya zschokkei Gurley als Parasiten von Coregonus albula aus dem See Sapsojärvi. Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (58-59).

Luther, A. [Hermafroditiska exemplar af Lota vulgaris.] [Hermaphroditisches Exemplar von Lota vulgaris.] Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (227; deutsch. Ref. 330).

Maclaren, M. Account of a fight between a Whale and a Sword-fish. London Proc. Zool. Soc. 1909 (100). 240

Mader, C. Recherches sur la sardine du golfe de Gascogne. Arcachon soc. sei. station zool. 12 1909 (125-276). 241

Maier, H. N. Neue Beobachtungen über das Hörvermögen der Fische. [Aus: Allg. Fischereiztg München 1909.] Arch. Hydrobiol. Stuttgart 4 1909 (393-397). 242

Maier, H. N. Beobachtungen über das Hörvermögen der Fische. (Vorl. Mitt.) Allg. Fischereiztg München 34 1909 (125-128). 243

[Maksimov, N.] Максимовъ, Н. Два вида Tripterygium изъ Чернаго моря. [Zwei Tripterygium-Arten aus dem Schwarzen Meere.] Charikov Trav. Soc. nat. 42 1907–1908 [1909] (59–63).

Malling, C. et Grönwall, K. A. A fauna in the Lias of Bornholm (Danish). Kjøbenhavn Medd. Geol. 15 1909 (271-312) 2 pls. and French summary. 245

Mawas, J. vide Policard, A.

TITLES. 5400

Mayethofer, Franz. Untersuchungen über die Morphologie und Entwicklungsgeschichte des Rippensystems der urodelen Amphibien. Wien Arb. Zool. Inst. Univ. 17 1908-09 (309-358) 2 Taf. 246

Mayerhofer, F. Farbenwechselversuche am Hechte (Esox lucius L.).

Arch. EntwMech. Leipzig 28 1909 (546-560) 1 Taf. 247

Mazzarelli, Giuseppe. L'epizoozia degli Agoni [Alosa] del Lago di Lugano nella primavera del 1908. Contributo alla conoscenza della pseudodifterite ittica. Riv. mens. Pesca Napoli 11 1909 (79–100).

Mazzarelli, Giuseppe. (Amiurus nebulosus) e (Eupomotis gibbosus). Pesca Napoli 11 1909 N. 4-5-6 (114-115); N. 7-8 (165-167 257-259 continua).

McCulloch, Allan R. Studies in Australian fishes. Sydney N.S.W. Rec. Austr Mus. 6 1909 (315-321) 250

McIntosh. Notes from the Gatty Marine Laboratory, St. Andrews. No. xxxi. 1. On a young stage of Gadus luscus with bold transverse bars of pigment. Ann. Mag. Nat. Hist. London 3 1909 (153-156). 251

Meek, Alexander. The encephalomeres and cranial nerves of an embryo of Acanthias vulgaris. Anat. Anz. Jena 34 1909 (473-475).

Meek, Seth Eugene. New species of fishes from tropical America. Chicago Ill. Field. Columb. Mus. Pub. Zool. Ser. 7 1909 (207–211).

Miachin, E. A. Observations on the Flagellates parasitic in the blood of freshwater fishes. London Proc. Zool. Soc. 1909 (2-30) pls. i-v. 253a

[Mitropoliskij, S.] Митронольскій, О. О ход'в и нерестів сельди въ дельтів Волги весною 1909 года. [Ueber den Zug und das Laichen der Häringe im Wolgadelta im Frühjahr 1909.] Věst. rybopromyšl. St. Peterburg 24 1909 (596–598). 254

Morgera, Arturo. Ricerche sulla glandola ed il canale di Leydig nei maschi di Scyllium. Archivio zool. Napoli 4 1909 (180-193) 1 tav. 255

Mourgue, Marcel. Sur Blennius cagnota dans la Garonne. Feuille jeunes natural. Paris 39 1909 (87).

Müller, G. Ueber das Vorkommen des Sternrochens an der Rügenschen Küste. Greifswald Mitt. natw. Ver. 40 (1908) 1909 (61). 257

Murakawa, H. vide Okamura, K.

Muratet, L. vide Salrages, J.

[Murzajev, В. В.] Мурзаевъ, Б. Б. По поводу смертности рыбъ въ Берхнемъ Озерѣ въ г. Ревелѣ, [Ueber die Sterblichkeit unter den Fischen des Oberen Sees in Reval.] věstn. obšč. gigieny St. Peterburg 45 1909 (241–250).

Natoli, R. Il Persico sole nelle acque della Svizzera insubrica. Locarno Boll. Soc. tic. Sci. Nat. 2 1905 (28-33).

Neveu-Lemaire, Mauricc. Sur la présence d'une larve de ligule (Ligula simplicissima) dans la cavité crânienne d'une tanche (Tinca vulgaris). Paris C. R. soc. biol. 66 1909 (88-89). 260

Newman, H. H. The question of viviparity in *Fundulus majalis*. Science New York N.Y. 30 1909 (769-771). 261

Nichols, John Treadwell. A note on the dolphins (Coryphaena equisetis and Coryphaena hippurus). New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (131-133). 262

Nichols, John Treadwell vide Evermann, B. W.

Nicolas, Ch. Remarques sur quelques poissons dits vénéneux. Paris Bulletin de la société de pathologie exotique 2 1909 (214-216). 263

Nicoll, W. A contribution towards a knowledge of the Entozoa of British marine fishes. Part II. Ann. Mag. Nat. Hist. London 4 1909 (1-25) pl.

[Nikišin, V. G.] Никишинъ, В. Г. Къ вопросу о пищѣ рыбъ. [Zur Frage über die Nahrung der Fische.] Astrachani Arb. Ichth. Labor. 1 1 1909 (1-44). 264a

Ninni, E. Questioni di Pesca. Pesca del pesce novello. Sull'uso dei "teloni." Riv. mens. Pesca Napoli 11 1909 (116-119). 265 F Nitsche, Hinrich. Die Süsswasserfische Deutschlands, ihre Kennzeichen, Fortpflanzung, Verbreitung und wirtschaftliche Bedeutung. Im Auftrage des Deutschen Fischereivereins gemeinfasslich kurz zusammengestellt. . . neubearb. u. verm. Aufl. v. Walter Hein. Berlin (D. Fischereiverein) 1909 (83) Taf. 27 cm. 266

Nordenson, J. W. Die Nerven und Gefässe der paarigen Flossen von Gadus callarias L. Ark. Zool. Stockholm 6 No. 6 1909 (22 pp.) 1 pl. 267

Nordgaard, O. Lidt om Guldflyndrens Vandringer i Trondhjemsfjorden. [Ueber die Wanderungen der Goldbutte im Drontheimfjord.] Bergen Norsk Fisket 28 1909 (275-278).

[Novikov, M. M.] [Новиковъ, М. М. Гистологическое строеніе кости у Orthagoriscus mola. [Der histologische Bau der Knochen von Orthagoriscus mola.] Moskva Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910 [Prot] 1910 (286–287).

Nüsslin, O. Die wissenschaftliche Bedeutung der Koregonen-Larven. Karlsruhe Verh. natw. Ver. 22 (1908–09) 1910 Abh. (86–100). 270

Nufer, Walther. Die Fische des Vierwaldstättersees und ihre Parasiten. Luzern Mitt. natf. Ges. H. 5 (1-232) 4 Taf. 271

Nufer, W. Die Fische des Vierwaldstättersees und ihre Parasiten. Basel Phil. Diss. 1905-06 (234 + 2) 8° S. H. a. d. Festschrift z. Jubiläumsfeier d. 50 jährigen Bestehens d. Naturfosch. Ges. in Luzern. 272

Ogilby, J. Douglas and McCulloch, Allan R. A Revision of the Australian Orectolobidae. Sydney N.S.W. J. R. Soc. 42 1909 (264-299) pls. xliixliii 273

Okamura, K. and Marukawa, H. Katsuo gyojō chosa hokoku. [Report on researches about the fishery ground of Gymnosarda affinis.] Tokyo, Suisan Koshujo Shiken Hokoku [Report of the Fisheries Institute] 5 1909 (1-18).

Oppenheimer, Josef. Der Malm der Schwedenschanze bei Brünn. Wien Beitr. Pal. Geol. OestUng. 20 1907 (221-271) 3 Taf. 274 [Ostrovskich, P.] Островскихъ, П. Къ вопросу о рыболовствъ и рыбопромышленности на съверъ Енисейской губерніи. [Der Fischfang und das Fischereigewerbe im Norden des Gouv. Jenisseisk.] Věst. rybopromyšl. St. Peterburg 24 1909 (160–181 205–225).

Parker, W. A. Fossil Arthropoda and Pisces from Middle Coal measures of Sparth, Rochdale. Rochdale Trans. Lit. Sci. Soc. 9 1908 (64-76). 276

Parker, W. N. and Burlend, T. H. On the efferent ducts of the testis in *Chimaera monstrosa*. Anat. Anz. Jena 34 1909 (331-336).

Parona, Corrado. La Selache maxima nei mari italiani. Riv. mens. Pesca Napoli 11 1909 (64). 278

Parona, Corrado. Esistono gli Ostracionidi nel Mediterraneo? Genova Atti Soc. ligustica sc. nat. geogr. 20 1909 (49-57). 279

Patterson, A. H. Fauna and Flora of Norfolk. Additions to Part IV. Fishes (Sixth List). Norwich Trans. Nat. Soc. 8 1909 (844-847). 280

[Pavlovskij, Eug.] Павловскій, Е. Къ вопросу о кожныхъ (ядовитыхъ) железахъ нѣкоторыхъ рыбъ. [Zur Frage über die (giftigen) Hautdrüsen einiger Fische.] St. Peterburg Trav. Soc. nat. C. r. séances 40 1 1909 (109-126 + deutsch. Rés. 138).

Pawlowsky, E. Ein Beitrag zur Kenntnis der Hautdrüsen (Giftdrüsen) einiger Fische. Anat. Anz. Jena 34 1909 (314-330). 282

Pawlowsky, E. Zusatz zum Artikel "Ueber die Giftdrüsen der Fische". Anat. Anz. Jena 34 1909 (413). 283

[Pawlowsky, Е.] Павловскій, Е. Кожныя железы ядовитых рыбъ. [Sur les glandes cutanés des poissons venimeux.] St. Peterburg Izv. voenmed. Akad. 18 1909 (22–42 161–182 308–319 443–452) Таf. i–iii. 284

Pellegrin, J. Sur la faune ichthyologique du lac Tchad. Paris C. R. Acad. sci. 148 1909 (1343-1345). 285

Pellegrin, Jacques. Sur la faune ichthyologique du lac Victoria. Paris C. R. Acad. sci 149 1909 (166-168). 286 Pellegrin, Jacques. Sur un poisson parasite nouveau du genre Vandellia. Paris C. R. Acad. sci. 149 1909 (1016-1017). 287

Pellegrin, Jacques. Poissons d'eau douce de Formose. Description d'une espèce nouvelle de la famille de Cyprinidae. Bul. Muséum Paris 1908 (262-275).

Pellegrin, Jacques. Poissons du Congo recueillis par la mission d'étude de la maladie du sommeil. Bul. Muséum l'aris 1908 (265-267). 289

Pellegrin, Jacques. Characinidés américains nouveaux de la collection du Muséum d'histoire naturelle. Bul. Muséum Paris 1908 (342-347). 290

Pellegrin, Jacques. Collections recueillies par M. E. Haug dans l'Ogooué. Liste de poissons et descriptions d'une espèce nouvelle (2° Note). Bul. Muséum Paris 1908 (347–349). 291

Pellegrin, Jacques. Sur un grand poisson percoïde peu connu du golfe de Californie (*Epinephelus rosaceus* Streets). Bul. Muséum Paris 1908 (349-352).

Pellegrin, Jacques. Characinides américains nouveaux de la collection du Muséum d'Histoire naturelle. Bul. Muséum Paris 1909 (12–14). 292

Pellegrin, Jacques. Collections recueillies par M. E. Haug dans l'Ogôoué (Poissons). Bul. Muséum Paris 1909 (66-68). 293

Pellegrin, Charles. Characinidés du Brésil, rapportés par M. Jobert. Bul. Muséum Paris 1909 (147–153). 294

Pellegrin, Jacques. Sur le Prochilodus insignis Schomburgk. Bul. Muséum Paris 1909 (153-156). 295

Pellegrin, Jacques. Description d'un Barbus nouveau du Sahara. Bul. Muséum Paris 1909 (239–240). 296

Pellegrin, Jacques. Poissons de la Komadougou et du lac Tchad récoltés par la mission Tilho-Gaillard. Bul. Muséum Paris 1909 (240–245). 297

Pellegrin, Jacques. Sur l'habitat des Barbus deserti Pellegrin (Lettre de Cortier). Bul. Muséum Paris 1909 (412). 298

Pellegrin, Jacques. Diagnoses préliminaires de Poissons nouveaux de l'Afrique orientale anglaise recueillis (N-11091 b) par M. Ch. Alluaud. Paris Bul. soc. zool. 34 1909 (156–159). 299

Pellegrin, Jacques. Sur une collection de poissons recueillis par le Dr. Würtz en Guinée française. Paris Bul. soc. philom. sér. 9 10 1908 (124–135).

Pellegrin, Jacques. Note complémentaire sur une seconde collection de Poissons recueillis par M. E. Haug à Ngomo (Ogooué). Paris Bul. soc. philom. sér. 10 1 1909 (44-53). 301

Pellegrin, Jacques. Sur une seconde collection de Poissons recueillis par M. E. Haug à Ngomo (Ogôoué). Paris Bul. soc. philom. sér. 9 10 1909 (184-190).

Pellegrin, Jacques. Sur un grand poisson percoïde peu connu du golfe de Californie. Paris C. R. ass. franç. avanc. sci. 38 (Lille) 1908 (80-81). 303

Pellegrin, Jacques. Poissons des pêcheries de la côte occidentale d'Afrique. Paris C. R. ass. franç. avanc. sci. 38 (Lille) 1909 (125). 303a

Pellegrin, Jacques. Les poissons d'eau douce de Madagascar. Paris Bul. soc. nat. acclim. 55 1908 (48-62).

Pellegrin, Jacques. Les Poissons d'eau douce de la Guyane français. Rev. colon. Paris 1908 (577-591); et Paris Bul. soc. nat. acclim. 56 1909 (179-185 219-227 271-274 303-312).

Pellegrin, J. Sur une race monstrueuse de Perches dauphins observée en Seine à Port-Villez. Paris Bul. soc. cent. aquicult. 20 1908 (42-46). 306

Pellegrin, Jacques. Sur un cas d'occlusion buccale chez le Hotu. Paris Bul. soc. cent. aquicult. 20 1908 (87–89).

Pellegrin, J. L'aquarium d'Amsterdam. Paris Bul. soc. aquicult. 21 1909 (21-23).

Pellegrin, Jacques. La faune du lac Tanganyika. Rev. sci. Paris sér. 5 9 1908 (680–684). 309

Pellegrin, Jacques. Poissons (2° Mémoire). Mission des pêcheries de la côte occidentale d'Afrique. Bordeaux Actes soc. linn. 72 1909 (76-102). 310

Perrando, G. G. vide Condorelli, M.

[1909]

Petersen, C. G. J. On the larval and postlarval stages of some Pleuronectidae (Zeugopterus, Arnoglossus, Solea). København Medd. Havunders. Serie Fiskeri 3 Nr. 1 1909 (1-18) 2 pls. (34 × 27).

Pictet, Arnold. Contribution à l'étude histologique du tube digestif des poissons cyprinoïdes. Rev. Suisse Zool. Genève 17 1909 (1-76) pl. ii. 312

Pietschmann, Viktor. Ichthyologische Ergebnisse einer Reise ins Barcntsmeer. Wien Ann. HatHist. Hofmus. 22 1907–1908 [1909] (293–307). 313

Plehn, M. Was ist eigentlich ein Fisch? Schweiz. Fischerztg Pfäffikon 15 1907 (154-157 212-214). 314

Policard, A. et Mawas, J. Mitochondries et cils vibratiles. Paris C. R. soc. biol. 66 1909 (35–36). 315

Pregl, Fritz. Ueber die Eihäute von Scyllium stellare Günth. und ihre Abbauprodukte. Hoppe-Seylers Zs. physiol. Chem. Strassburg 56 1908 (1-10). 316

Priem, F. Étude des Poissons fossiles du bassin parisien. Paris (Masson) 1909 (144) fig. et 5 pls. 25 cm. 15 fr. 317

Radcliffe, Lewis vide Evermann, B. W.

Rauther, Max. Das Kopulationsorgan von Clinus. [In: L. Schultze, Zool. u. anthrop. Ergebnisse in Südafrika. Bd 3, Lfg 2.] Jena Denkschr. med. Ges. 15 1909 (467-476). 318

Raveret-Wattel, C. Une excursion aux pêcheries de Commachio (Italie). Paris Bul, soc. nat. acclim. 54 1907 (376-392).

Redeke, H. C. Bericht über die hollaendischen Arbeiten zur Naturgeschichte der Gadiden in den Jahren 1902 bis 1906. (German) København Rap. et proc.-verb. explor. mer. 10 1909 (1-25).

Redeke, H. C. Over eenige uitkomsten van het internationaal onderzoek der zee. [Ueber einige Resultate der internationalen Meeresuntersuchung.] Amsterdam Werk. Gen. Nat. Genecs. Heelk. Ser. 2 6 2 1909 (105-112) 1 Taf.

Redeke, H. C. Bericht über die holländische Schollenfischerei und über die Naturgeschichte der Scholle in der südlichen Nordsee. Helder Verh. Onderz. Zee 2 1909 (3-63) 1 Karte. 322

Regan, C. T. Exhibition of two species of Char (Salvelinus grayi and S. maxillaris). London Proc. Zool. Soc. 1909 (98).

Regan, C. T. Exhibition of sketches of, and remarks upon colour-changes in, some fishes in the New York Aquarium. London Proc. Zool. Soc. 1909 (130).

Regan, C. T. A collection of fishes made by Dr. C. W. Andrews, F.R.S., at Christmas Island. London Proc. Zool. Soc. 1909 (403-406) pls. lxv and lxvi. 325

Regan, C. T. A revision of the fishes of the genus *Elops*. Ann. Mag. Nat. Hist. London 3 1909 (37-40). 326

Regan, C. T. On the anatomy and classification of the Scombroid fishes. Ann. Mag. Nat. Hist. London 3 1909 (66-75).

Regan, C. T. The classification of Teleostean fishes. Ann. Mag. Nat. Hist. London 3 1909 (75–86). 328

Regan, C. T. The Char (Salvelinus) of Great Britain. Ann. Mag. Nat. Hist. London 3 1909 (111-122). 329

Regan, C. T. Descriptions of three new freshwater fishes from South America presented to the British Museum by Herr J. Paul Arnold. Ann. Mag. Nat. Hist. London 3 1909 (234-235).

Regan, C. T. Description of a new Cichlid fish of the genus *Heterogramma* from La Plata. Ann. Mag. Nat. Hist. London 3 1909 (270).

Regan, C. T. A new specific name for an Orectolobid shark. Ann. Mag. Nat. Hist. London 3 1909 (529). 332

10 820 Spined Sticklebacks (Gastrosteus). Ann. omome Mag. Nat. Hist. London 4 1909 (435-437).

> Regan, C. T. Descriptions of new marine fishes from Australia and the Pacific. Ann. Mag. Nat. Hist. London 4 1909 (438-440). 334

> Regan, C. T. The Char of Ireland. Irish Nat. Dublin 18 1909 (3-6). 335

Reichard, Adolf C. Die deutschen Versuche mit gezeichneten Schollen. II. Bericht. (Arb. d. D. wiss. Kommission f. d. internat. Meeresforschung. B. 10.) Wiss. Meeresunters. Kiel (N.F.) 9 Abt. Helgoland 1909 (1-57) 9 Taf. 336

Reisowa, Karolina. Szczątek pęcherza pławnego u narybka Golomianki. (Comephorus baicalensis Pall.). [Le rudiment de la vessie natatoire chez l'alevin du Comephorus baicalensis Pall.] Kosmos Lwów 34 1909 (97–104).

Répássy, Miklós. Édesvizi halászat és halgazdaság. [Süsswasserfischerei und Fischwirtschaft.] Budapest 1909 (502) 2 Taf. 23 cm. 1 Krone. 338

Retterer, Ed. et Lelièvre, Aug. Musculature intestinale de la Tanche (*Tinca vulgaris* Cuv.). Paris C. R. soc. biol. 66 1909 (571-574). 339

Retzius, Gustaf. Zur Kenntnis der Spermien der Elasmobranchier. [In: Retzius, Biolog. Untersuchungen, N.F., XIV.] Jena (G. Fischer) 1909 (79-88) 2 Taf.

Reuss, Hans. Die Wirkung der Kohlensäure auf Fische. München Ber. biol. Versuchstat. 2 1909 (89– 142). 341

Reynolds, S. H. Fish teeth and spines from the Carboniferous Limestone of the Bristol district. Bristol Proc. Nat. Soc. 2 1908 (41-43). 342

Richardson, Robert Earl vide Jordan, David Starr.

Robertson, M. Notes on an Ichthyosporidian causing a fatal disease in Sea-Trout. London Proc. Zool. Soc. 1909 (399-402) pls. lxii-lxiv. 343

Römer, F[ritz]. Die Wanderungen der Fische. Frankfurt a. M. Ber. Senckenb. Ges. 40 1909 (101*–105*).

Roth, Wilhelm. Das Schaumnestproblem. Bl. Aquarienkunde Stuttgart 20 1909 (218-220 279-281 297-300).

Roth, W. Ueber das gleichzeitige Vorkommen verschiedener Aussenschmarotzer auf einem und demselben Fisch. Nebst einer kurzen Mitteilung über einen bisher nicht beschriebenen Fischparasiten. Bl. Aquarienkunde Stuttgart 20 1909 (571-572 587-590 601-603).

(n-11091 b)

Roth, W. [Über e. Rundwurm im Darm der Ellritze.] Wochenschr. Aquarienk. Braunschweig 6 1909 (673– 375). 347

Roule, L. Notes ichthyologiques: Les Triglidés de la Méditerranée. Systématique stricte. Arch. zool. Paris sér. 4 9 1908 (iv et R. xvii–xxiv).

Ruysch, G. J. E. Experimenten over Otolithenverschuiving. [Experimente über Otolithenverschiebung.] Utrecht (P. den Boer) 1909 (166). 25 cm. 349

Sabrazès, J. et Muratet, L. Observations sur le sang de la Torpille (Torpedo marmorata Risso). Folia haematologica Leipzig 6 1908 (167–170).

Sabrazès, J. et Muratet, L. Absence d'autoagglutination des hématies dans les préparations du sang d'Anguilla vulgaris contenant des trypanosomes. Bordeaux Actes soc. linn. 72 1909 (xliii). 351

Sabrazès, J. et Muratet, L. Vitalité du Trypanosoma anguillae dans le sang du cœur après la mort de cet animal. Bordeaux Actes soc. linn. 72 1909 (xliii-xliv).

Sabrazès, J. et Muratet. Observations sur le sang de la torpille. Bordeaux Actes soc. linn. 72 1909 (exiiiexviii). 353

Sabrazès, J. et Muratet, L. Trypanosome de la torpille. Bordeaux Actes soc. linn. 72 1909 (cxvii-cxix).

Sæmundsson, Bjarni. Oversigt over Islands Fiske, med Oplysninger om deres Forekomst, vigtigste biologiske Forhold og økonomiske Betydning. [A textbook on the Icelandic fishes.] København Skrifter Havunders. Nr. 5 1909 (1-140) 1 Chart. 25½ × 17).

Sæmundsson, Bjarni. Fiskirannsáknir 1908. [Icthyological researches 1908.] Reykjavik Andvari 34 [1909] (114-153).

Sanzo, L. Uova e larve di Auxis bisus. Monitore zool. ital. Firenze 20 1909 (79-80). 357

Sauvage, H. E. Contribution à l'étude du péritoine des Pleuronectes. Autun Bul. soc. sci. nat. 21 1908 (1-7). [šavrov, N.] Шавровъ, Н. Зпаченіе разлива Аракса для кавказской рыбопромышленности и мѣры къ ихъ паилучшему использованію. [Ueber die Bedeutung des Austretens des Araxes für das kaukasische Fischereigewerbe und die Massnahmen zu seiner besten Ausnützung.] Věst. rybopromyšl. St. Peterburg 24 1909 (118–160 189–204).

Schlesinger, Günther. Der sagittiforme Anpassungstypus nektonischer Fische. Wien Verh. ZoolBot. Ges. 59 1909 ((140)-(156)). 360

Schlesinger, G. Zur Phylogenie und Ethologie der Scombresociden. Wien Verh. ZoolBot. Ges. 59 1909 (302-339). 360a

Schmidt, Johs. The distribution of the pelagic fry and the spawning regions of the Gadoids in the North Atlantic from Iceland to Spain. (English) København Rap. et proc.-verb. explor. mer. 10 1909 (1-229) 10 Charts.

Schmidt, Johs. Remarks on the metamorphosis and distribution of the larvae of the eel (Anguilla vulgaris Turt.). København Medd. Havunders. Serie Fiskeri 3 Nr. 3 1909 (1-17) 1 Pl. and 1 Chart (34 × 17).

Schmidt, Johs. On the occurrence of Leptocephali (larval Muraenoids) in the Atlantic w. of Europe. København Medd. Havunders. Serie Fisker 3 Nr. 6 1909 (1-19) w. 2 Pl. and 1 Chart (34 + 27).

Schmidt, Johs. On the distribution of the freshwater eels (Anguilla) throughout the world. København Medd. Havunders. Ser. Fiskeri 3 Nr. 7 1909 (1-45) 1 Chart (34 × 27). 364

Schmidt, Johs. Ferskyandsaalenes (Anguillula) Udbredelse i Verden I. Det atlantiske Ocean og tilgrænsende Omraader. [The distribution of the freshwater eels (Anguillula) in the world.] København Vid. Selsk. Skr. Ser. 7 8 1909 (119–178) 1 pl. 365

Schnee. Ein gefährlicher 1 isch des hiesigen Meeres. Arch. Schiffshyg. Leipzig 13 1909 (168). 366

Schneider, Guido. Ueber das Wachstum der Aale (Anguilla vulgaris Flem.) in den Gewässern Schwedens. København Pub. explor. mer. 46 1909 (1-18).

Schneider, G. Ein Beitrag zur Kenntnis der in den Schreibershofer Seen vorkommenden Fische. Riga Korr. blt. Naturf. Ver. 52 1909 (73-81). 368

Schubert, Richard. Das Fischleben der alten Wiener Meere. Urania Wien 1 1908 (101-102). 369

Schubert, R. J. Ueber Fischotolithen aus dem sardinischen Miocän. Wien Verh. Geol. RehsAnst. 1907 (341-343).

Schubert, R. J. Weitere Fischotolithen aus dem sardinischen Miocän und aus dem Pliocän von Bologna. Wien Verh. Geo. RchsAnst. 1907 (393– 395).

Scott, A. Sea-fish hatching at Piel. Liverpool Proc. Trans. Biol. Soc. 23 1909 (111-116). 372

Secerov, Slavko. Farbenwechselversuche an der Bartgrundel (Nemachilus barbatula L.). Arch. Entw-Mech. Leipzig 28 1909 (629-660) 2 Taf.

Sellheim, H. Ueber die Fischerei in den Lemsal'schen Seeen. Balt. Wochenschr. Jurjev 1909 (309-312). 374

Smith, Burnett. Note on the Miocene drum fish—Pogonias multi-dentatus Cope. Amer. J. Sci. New Haven Conn. Ser. 4 28 1909 (275-282).

Śnieżek, Jan. Tarliska i rozwój węgorza. [Le développement des anguilles.] Okóln. ryb. Kraków 1909 (324–329).

Snyder, John Otterbein. Descriptions of new genera and species of fishes from Japan and the Riu Kiu islands. Washington D.C. U. S. Nation. Mus. Proc. Smithsonian Inst. 36 No. 1688 1909 (597–610).

Starks, Edwin Chapin. The scombroid fishes. Science New York N.Y. 30 1909 (572-574). 378

Steche, Otto. Die Leuchtorgane von Anomalops katoptron und Photoblepharon palpebratus, zwei Oberflächenfischen aus dem Malaiischen Archipel. Ein Beitrag zur Morphologie und Physiologie der Leuchtorgane der Fische. Zs. wiss. Zool. Leipzig 98 1909 (349-408) 3 Taf. Stejneger, Leonhard. Røiren og den skotsk-norske landbro. [Salvelinus alpinus und die schottisch-norwegisehe Landbrücke.] Bergen Naturen 33 1909 (52-59 128). 380

Stewart, F. H. Comparison of the Fish fauna of the north and the south faces of the great Himalayan range. Rec. Ind. Mus. Calcutta 3 1909 (121–123).

Strand, Embrik. Pisees für 1906. [Jahresbericht.] Arch. Natg. Berlin 73 Bd 2 H. 1 1907 [1909] iv (1-86). 382

Studnička, F. K. Zur Lösung der Dentinfrage. / Bemerkungen zu den Arbeiten v. K. v. Korff (Ergebn. d. Anat. Bd 17) und V. v. Ebner (Anat. Anz. Bd 34, No. 13-14). Anat. Anz. Jena 34 1909 (481-502).

Suomalainen, E. W. Kaksi eläintieteellistä tiedonantoa. [Zwei zoologische Notizen.] Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (87-88; Deutsches Ref. 330).

Supino, Felice. Sviluppo larvale e biologia dei pesci delle nostre acque dolci. I. Esox lucius. Milano Att Soc. ital. sc. nat. 48 1909 (197-218) 2 tav. 385

Tanaka, Shigeho. Descriptions of one new genus and ten new species of Japanese fishes. Tokyo J. Coll. Sci. 27 Art. 8 1909 (1-27) pl. 386

Tanaka, S. Fish fauna of Lake Biwa. Annot. Zool. Jap. Tokyo 7 1908 (1-15). 386a

Tanaka, S. On a small collection of tide-pool fishes from Misaki, with descriptions of two new species. Annot. Zool. Jap. Tokyo 7 1908 (17–26). 387

Tanaka, S. Descriptions of eight new species of fishes from Japan. Annot. Zool. Jap. Tokyo 7 1908 (27– 47). 388

Tanaka, S. Notes on freshwater fishes from the Province of Shinano, Japan. Annot. Zool. Jap. Tokyo 7 1909 (125–138). 389

Tanaka, S. Gifu-san gyorui yoho. [Preliminary report on the fishes of Gifu.] Dobuts. Z. Tokyo 21 1909 (62–67).

Tanaka, S. Shinshü san tansuigyo mokuroku. [A list of the freshwater fishes of Prov. Shinano.] Dobuts. Z. Tokyo 21 1909 (288-291). 390

Tesch, J. J. Eier und Larven einiger im Frühjahr laichenden Fische, besonders der südlichen Nordsee. Helder Verh. Onderz. Zee 2 1909 (3-44) 1 Karte. 391

Thomson, W. vide Gilehrist, J. D.

Thumm, Johannes. Pelmatochromis subocellatus (Gthr.). Bl. Aquarienkunde Stuttgart 20 1909 (813– 816 829–832). 392

Tould, Franz. Eine jungtertiäre Fauna von Gatun am Panamakanal. Wien Jahrb. Geol. RehsAnst. 58 1908 [1909] (673–760) 4 Taf. 393

Townsend, C. H. Pollution of streams—An appeal to anglers. New York N.Y. Rep. Zool. Soc. 12 (1907) 1908 (97–103).

Traquair, R. H. On fossil fishremains collected by J. S. Flett, M.A., D.Se., from the Old Red Sandstone of Shetland. Edinburgh Trans. R. Soc. 46 1909 (321–329) 2 pls. 395

Tretjakoff, D. Nervus mesencephalicus bei Ammocoetes. Anat. Anz. Jena 34 1909 (151–157). 396

Tretjakoff, D. Das Nervensystem von Ammocoetes. 1. Das Rückenmark. Arch. mikr. Anat. Bonn 73 1909 (607–680) 3 Taf.

Tretjakoff, D. Das Nervensystem von Ammocoetes. II. Gehirn. Arch. mikr. Anat. Bonn 74 1909 (636-779) 9 Taf. 398

Trois, Enrieo Filippo. Sopra un interessante esemplare di Salmonide pescato in prossimità della spiaggia del Lido di Venezia. Venezia Atti Ist. ven. 68 1908-09 (27-31). 399

Trois, E. F. Sopra l'anormale colorazione della pelle osservata in un esemplare mutilato di *Lophius piscatorius* proveniente dalle pescherie di Arcachon. Venezia Atti Ist ven. 68 1908-09 (43-45).

Trois, E. F. Contributo alla conoscenza di forme di metaeromatismo osservate in pesci raccolti nella laguna di Venezia. Venezia Atti Ist. ven. 68 1908-09 (113-115).

Trois, E. F. Appunti sopra un esemplare di Luvarus imperialis Raf. comparso sul nostro mercato. Venezia Atti Ist ven 68 parte 2 1908-09 (609-611), 402

Tschermak, Armin v. Physiologische Untersuchungen am embryonalen Fischherzen. Wien SitzBer Ak. Wiss. Abt. III 118 1909 (17-115) 2 Taf. 403

Tschernoff, N. D. Ueber den Bau des Gehörorgans von Exocoetus. Anat. Anz. Jena 34 1909 (91-94).

Tysowski, A. Stosunek narządu słuchu do pęcherza pławnego u ryb śłedziowatych. [Zur Kenntnis des Gehörorganes und seiner Beziehungen zur Schwimmblase bei den Clupeiden.] Kraków Bull. Intern. Acad. 1909 (45–74).

Vayssière, A. Note sur un œuf double de Squale. Paris C. R. soc. biol. 67 1909 (872–873). 406

Vayssière, A. Note zoologique et anatomique sur quelques Trachypterus pris dans le golfe de Marseille 17 1908 (121-128). 407

Vinciguerra, D. Sur l'opportunité d'une exploration océanographique de la Méditerranée dans l'intérêt des pêches maritimes. Bul. Inst. océan. Monaco 138 1909 (10). 408

Vogel, Richard. Die Entwickelung des Schultergürtels und des Brustflossenskelettes der Forelle (*Trutta* fario). Jenaische Zs. Natw. 45 1909 (499-544) 3 Taf.

Volz, W. L'appareil de respiration et de circulation du Monopterus javanensis Lac. Arch. Sci. Phys. Genève (4) 20 1905 (580-581).

[Voskoboinikov, М. М.] Воскобойниковъ, М. М. О метамеріи висцеральнаго скелета. [Ueber die Metamerie des Visceralskeletts.] Moskva Dnevn. xii. Sjözda russ. jest. vrač. 1909-1910 g. [Prot.] 1910 (287-288).

Wagner, George. Notes on the fish fauna of Lake Pepin. Madison Trans. Wis. Acad. Sci. 16 1908 (23-37).

Wagner, George vide Juday, Chancey.

Walter, E. Das Gesetz vom Minimum und das Gleichgewicht im Wasser. Einige allgemeine Betrachtungen aus dem Gebiete des Stoffkreislaufes im Wasser in seiner Anwendung auf die Fischereiwirtschaft. Arch. Hydrobiol. Stuttgart 4 1909 (339–366). 413

Weber, A. Recherches sur quelques stades du développement de cœur de la Raie. C. R. Ass. anat. Paris 10 (Marseille 1908) Paris 1908 (10-14).

Weber, Max. Eine neue Art von Macrorhamphosus und Revision dieses Genus. Helder Tijdschr. Ned. Dierk. Ver. Ser. 2 11 1909 (71-79). 414

Weber, M. Diagnosen neuer Fische der Siboga-Expedition. Leiden Notes Mus. Jentink 31 1909 (143-169). 415

Weed, Alfred C. vide Bean, Barton A.

Werner, Franz. Reptilien, Batrachier und Fische von Tripolis und Barka. Zool. Jahrb. Jena Abt. f. Syst. 27 1909 (595-646) 1 Taf. 416

Widakowich, Victor. Ueber einen Musculus sphincter uterorum bei Torpedo ocellata und über das Hymen der Plagiostomen. Arch. Anat. Physiol. Leipzig Anat. Abt. 1908 (352-370). 417

Wigg, T. J. Notes on the Herring fishery of 1908. Norwich Trans. Nat. Soc. 8 1909 v. 763. 418

Willey, A. The occurrence of Solenostoma off the coast of Ceylon. Spol. Zeylan. Colombo 6 pt. xxiii 1909 (102-107) 1 pl.

Willey, A. Observations on the nests, eggs and larvae of Ophiocephalus striatus. Spolia Zeylan. Colombo 6 pt. xxiii 1909 (108-123) 2 pls. 419

Winterstein, Hans. Beiträge zur Kenntnis der Fischatmung. Arch. ges. Physiol. Bonn 125 1908 (73–98).

Woodward, A. Smith. On fossil fish-remains from Snow Hill and Seymour Islands. (Wissenschaftl. Ergebnisse der Schwed. Südpolar-Exped. 1901-1903 3 Lief. 4.) Stockholm 1908 (4) 1 pl. 27 cm. 421

Worthington, Julia vide Ayers, Howard.

Zacharias, Otto. Die natürliche Nahrung der jungen Wildfische in Binnenseen. Uns. Welt Godesberg 1 1909 (389-394). 422

Zanichelli, Wilfrido. Sullo sviluppo dello scheletro viscerale della trota (Salmo fario L.). Roma Boll. Soc. zool. ital. 10 1909 (239-255). 423 Zugmayer, E. Descriptions of four new Cyprinoid fishes from! High Asia. Ann. Mag. Nat. Hist. London 4 1909 (432-435).

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Africa.

Catalogue of the freshwater fishes of Africa, Vol. I. New species of Malacopterygii and Ostariophysi; Boulenger, 32.

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South America, three new freshwater fishes; Regan, 330.

The marine fishes. (Reports on the Expedition to British Guiana of the Indiana university and the Carnegie museum, 1908. No. 3.); Blosser, 26.

Some new genera and species of fishes from British Guiana; Eigenmann, 96.

A new genus and twelve new species of Tetragonopterid characins. (Reports on the Expedition to British Guiana of the Indiana university and the Carnegie museum, 1908, No. 2.); Durbin, 88.

Les poissons d'eau douce de la Guyane française; Pellegrin, 305.

Preliminary descriptions of new genera and species of tetragonopterid characins. (Zoological results of the Thayer Brazilian expedition.); Eigenmann, 95.

Characinidés du Brésil, rapportés par M. Jobert; Pellegrin, 294.

La Plata, new Cichlid fish; Regan, 331.

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GENERAL WORKS.

Comparative anatomy of Cyclostomes and Fishes, Goodrich. A Treatise on Zoology, Part IX. 1909.

Catalogue of the fresh-water fishes of Africa in the British Museum. Vol. I. (Selachii, Crossopterygii and Dipnensti, and the Teleostean suborder Malacopterygii and part of the Ostariophysi.) BOULDIGER LONDON 1909.

A textbook on the Icelandic fishes (Danish), SAEMUNDSSON København 1909.

A catalogue of the fishes of the island of Formosa, or Taiwan, based on the collections of Dr. Hans Sauter. JORDAN and RICHARDSON Mem Carnegic Mus. 4 pp. 159-204 pls. lxiii-lxxiv.

Some fishes from Lake Biwa, with a list of all the fishes hitherto known from that locality, Tanaka Annot. Zool. Jap. Tokyo 7 pp. 1-15.

Freshwater fishes of Shinano, 25 species, Tanaka Annot. Zool. Jap. Tokyo 7 1909 pp. 125-138.

Freshwater fishes of Prov. Shinano, Tanaka Dobuts. Z. Tokyo 21 pp. 288-201

Sur la faune ichthyologique du lac Victoria, Pellegrin Paris C. R. Acad. sci. 149 pp. 166-168.

Catalogue des Poissons du Congo du Musée de Luxembourg, BOULENGER 1909 pp. 1-16.

Collections recueillies par M. E. Haug das l'Ogooué. Liste des Poissons et description d'une espèce nouvelle, Pellegrin Bul. Muséum Paris 1908 pp. 347-349.

Sur la faune ichthyologique du lac Tchad, Pellegrin Paris C. R. Acad. sci. 148 pp. 1343-1345.

Poissons des pêcheries de la côte occidentale d'Afrique, Pellegrin Paris C. R. ass. franc. avanc. sci. 38 p. 125.

Fische der Ostsee und ihre Verbreitung, Knipowitsch St. Peterburg, Ann. mus. zool. 14 pp. 0205-0221.

TELEOSTEI.

The classification of Teleostean fishes, REGAN Ann. Mag. Nat. Hist. 3 pp. 75-86.

Teleostei, anatomy of the olfactory organ, Burne Proc. Zool. Soc. 1909 p. 610.

Ruwenzori Expedition Reports, Pisces, Boulenger Trans. Zool. Soc. 19 pp. 237-252.

Andrew Garrett's Fische der Südsee, beschrieben u. redigirt. H. 8. (Journal des Museum Godeffroy, H. 16), GÜNTHER 1909 pp. i-iv 261-388 20 Taf.

Tide-pool fishes of Misaki, Tanaka Annot. Zool. Jap. 7 pp. 17-26.

PLECTOGNATHI.

Chonerhinus africanus sp. n. Congo, BOULENGER Cat. p. 15.

Spheroides liosomus sp. n. Australia, REGAN Aun. Mag. Nat. Hist. 4 p. 439.— S. asterias sp. n. British Guiana, BLOSSER Ann. Carnegie Mus. 6 1909 p. 300 pl. xii, fig. 2.

Orthagoriscus mola Knochenbau, Noviκov, Moskva, Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910g., [Prot.], 1910, p. 286–287.

PEDICULATI.

Angler fishes: Their kinds and ways, Gill Smithsonian Inst. Rep. 1908 pp. 565-615 with illus. text-fig.

MALTHIDAE.

Malthopsis annulifera sp. n. Japan, Tanaka Annot. Zool. Jap. 7 p. 27.

ACANTHOPTERYGII.

OPHIDIIDAE.

Brotula jayakari sp. n. for B. multibarbata Regan 1903, Günther J. Mus. Godefroy H. 16 p. 334.

BLENNIIDAE.

Blennius nativitatis p. 404, atrocinctus p. 405 spp. n. Christmas I., Regan Proc. Zool. Soc. 1909 pl. lxvi figs. 2 and 1.

Andamia cyclocheilus sp. n. West Neu-Guinea, Weber Leiden Notes Mus. Jentink 31 p. 143. Salarias caudojasciatus, natalis p. 405; melanosoma p. 406, spp. n. Christmas I., Regan Proc. Zool. Soc. 1909 pl. lxvi figs. 3-6.—S. crenulatus sp. n. Malayischer Archipel, Weber Leiden, Notes Mus. Jentink 31 p. 144.

Haliophis malayanus sp. n. Aru, Weber Leiden Notes Mus. Jentink 31 p. 145.

Petroscirtes fluctuans sp. n. Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 p. 146.

Tripterygium nikolskii pp. 59-60 sp. n. Schwarzes Meer, nasus Risso pp. 61-62 Beschreibung, Maksimov Charikov, Trav. Soc. nat., 42,—T. cullionymi, fasciatum, gymnauchen spp. n. Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 pp. 147-149.

Carapus sagamianus sp. n. Tanaka Annot. Zool. Jap. 7 p. 40.

Zoarchias glaber p. 38, neglectus p. 24 spp. n. Japan, Tanaka Annot. Zool. Jap. 7.

GOBIESOCIDAE.

Aspasma laticephala sp. n. Seven Islands of Izu, Japan, Tanaka Tokyo J. Coll. Sci. 27 p. 25.—A. misakia sp. n. Japan, Tanaka Annot. Zool. Jap. 7 p. 22.

NOTOTHENIIDAE.

†Notothenia sp. Tertiary, Antarctic, WOODWARD Wiss. Erg. Schwed. Sudpolar Exp. 3 Lief. 4 pp. 1-4.

DACTYLOPTERIDAE.

Dactyloptena gilberti sp. n. southern Japan, Snyder Proc. U. S. Nation. Mus. 36 No. 1688 pp. 604-605.

TRIGLIDAE.

Les Triglidés de la Méditerranée. Systématique stricte, Roule Arch. zool. 9 1908 pp. iv et R. xvii-xxiv.

COTTIDAE.

Cottus haitej Dyb., BERG St. Peterburg Mém. Ac. sc. 24 9 Taf. iii.

SCORPAENIDAE.

Scorpaena durbanensis sp. n. S. Africa Gilohrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 236.

GOBUDAE.

Electris pleurops sp. n. Lower Niger, BOULENGER Ann. Mag. Nat. Hist. 3 p. 42.

Gobius pictus Malm en France, Danois Paris Bul. soc. zool. 34 p. 86.

Gobius ophthalnicus, triangularis, villosus, cavifrons, uronema, notonema, longimanus spp. n. Malayischer Archipel, Weber Leider Notes Mus. Jentink 31 pp. 150-154.—†G. gatunensis sp. n. Otolith, Panama, Jungtertiär, Tould Wien Jahrb. Geol. RehsAnst. 58 p. 691.

Gobius (Oxyurichthys) occidentalis sp. n. Portuguese Guinea, BOULENGER Ann. Mag. Nat. Hist. 4 p. 431.

Gobioides ansorgii sp. n. Portuguese Guinea, Boulenger Ann. Mag. Nat. Hist. 4 p. 431.

Expedio gen. n. near Luciogobius p. 606, type parvulus sp. n. central Japan pp. 606-607, Snyder Proc. U. S. Nation. Mus. 36, No. 1688.

Inu gen. n. near Luciogobius p. 607, type koma central Japan pp. 607-608, ama central Japan pp. 608-609, spp. n. SNYDER Proc. U. S. Nation. Mus. 36, No. 1688.

Ctenogobius kurodai, katonis spp. n. Japan, Tanaka Annot. Zool. Jap. 7 p. 27.

Glossogobius abacopus sp. n. Formosa, Jordan and Richardson Pittsburgh Mem. Carnegio Mus. 4 pp. 200-201 pl. lxxiv.

Zonogobius boreus sp. n., central Japan, Snyder Proc. U. S. Nation. Mus. 36 No. 1688 pp. 605-606.

Callogobius centrolepsis sp. n. Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 p. 157.

Sicydium japonicum n. sp. Tosa and Wakayama Japan, Tanaka Tokyo J. Coll. Sci. 27 pp. 1-27 pl.

Quisquilius profundus, macrophthalmus, spp. n. Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 pp. 155, 156.

PLEURONECTIDAE.

Solea senegalensis Kaup. var. n. m'baoensis côte occidentale d'Afrique, Pellegrin Bordeaux Actes soc. linn. 72 p. 83.—S. persimilis sp. n. Neu-Pommern, Günther J. Mus. Godefroy H. 16 p. 346.

Trulla itina sp. n. Okinawa, SNYDER Washington Proc. U. S. Nation. Mus. 36 pp. 609-610.

ZEIDAE.

Parazenopsis gen. n. voisin de Zenopsis p. 873, argenteus sp. n. p. 874, CLIGNY Paris C. R. Acad. sci. 148.

CORYPHAENIDAE.

Coryphaena equisetis and C. hippurus compared, Nichols Bull. Amer. Mus. Nat. Hist. 26 pp. 131-133 fig.

SCOMBRIDAE.

Anatomy and classification of the Scombroid fishes, REGAN Ann. Mag. Nat. Hist. 3 pp. 66-75.

The Scombroid fishes, STARKS Science New York 30 pp. 572-574.

†Pelamys (?) palaeocæna sp. n. Leriche Lille Ann. soc. geol. 37 p. 247 pl. v fig. 8.

CARANGIDAE.

Caranx hullianus sp. n. Sydney, McCullock, Sydney Rec. Austr. Mus. 6 p. 319 fig.—C. guptae pp. 141-142 fig., auricoronae pp. 142-143 fig., Bay of Bengal, CHAUDHURI Rec. Ind. Mus. 3 pt. ii.

SCARIDAE.

Callyodon bowersi pp. 602-603, oedema Okinawa pp. 603 spp. n., SNYDER Proc. U. S. Nation. Mus. 36 No. 1688.

Pseudoscarus garretti, Kingsmill-Inseln, p. 306, rostratus, Gesellschafts-Inseln, p. 315, godeffroyi, Gesellschafts-Inseln, p. 326, brevifilis, Tahiti, p. 327, spp. n. Günther J. Mus. Godefroy H. 16.—P. natalensis sp. n. S. Africa, Gilchrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 259.

†Scaroides gen. n. gatunensis sp. n. Panama Jungtertiär, Tould Wien Jahrb. Geol. RehsAnst. 58 p. 687.

LABRIDAE.

Chaerops natalensis sp. n. S. Africa GILGHRIST & THOMPSON Cape Town Ann. S. Afric. Mus. 6 p. 25 Chaeropsodes gen. n. pictus sp. n. S. Africa Gilohrist & Thompson Capo Town Ann. S. Afric. Mus. 6 p. 260.

Hemipteronotus evides sp. n. Formosa, JORDAN and RICHARDSON Pittsburg Mem. Carnegie Mus. 4 p. 196 pl. lxxii.

Platyglossus vicinus sp. n. Kingsmill-Inseln, Güntner J. Mus. Godefroy H. 16 p. 267.

Julis whitmii sp. n. Gesellschafts Inseln, GÜNTHER J. Mus. Godefroy H. 16 p. 291.

POMACENTRIDAE.

Abudefduf richardsoni pp. 600-601, rex pp. 601-602 Okinawa spp. n., Snyder Proc. U. S. Nation. Mus. 36 No. 1688.

CICHLIDAE.

Paratilapia bayoni, polyodon spp. n. Uganda, Boulenger Ann. Mus. Civ. Genova 4 pp. 3-4 figs.

Cichlasoma biocellatum sp. n., Rio Negro, Regan Ann. Mag. Nat. Hist. 3 p. 234.—C. punctatum p. 210, frontale pp. 210-211 spp. n. Costa Rica Meek Chioago Field Columbian Mus. Pub. Zool. Ser. 7.

Tilapia perrieri sp. n. p. 158, stanleyi Boulenger var. n. uniformis p. 159, L'Afrique orientale Pellegrin Paris Bul. soc. zool. 34.

Astatotilapia nigrescens sp. n. L'Afrique orientale Pellegrin Paris Bul. soc. zool. 34 p. 157.

Pelmatochromis subocellatus (Gthr.) Thumm Bl. Aquarienkunde 20 pp. 813–816 829–832.

Heterogramma pleurotoenia sp. n. La Plata, REGAN Ann. Mag. Nat. Hist. 3 p. 270.

CHARTODONTIDAE.

Holacanthus albojasciatus n. sp. Japan Tanaka Tokyo J. Coll. Sci. 27 Art. 8 pp. 1-27, pl.—H. lunatus sp. n. British Guiana, Blosser Pittsburgh Ann. Carnegie Mus. 6 1909 p. 299 pl. xii fig. 1.

MULLIDAE.

Upeneus natalensis sp. n. S. Africa Gilchrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 229. Parupeneus andrewsii sp. n. Christmas I., Regan Proc. Zool. Soc. 1909 p. 403 pl. lxv.

SPARIDAE.

Scolopsis eriomma sp. n. Formosa, Jordan and Richardson Pittsburg Mem. Carnegie Mus. 4 p. 188 pl. lxx.

Dentex robinsoni sp. n. S. Africa Giichrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 226.

†Dentex (?) tardinensis sp. n. LERIGHE Lille Ann. soc. geol. 37 p. 254 pl. vi fig. 12-13.

Cantharus microlepis, simus spp. n. S. Africa, Gilchrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 231.

Chrysophrys pugicephalus sp. n. S. Africa Gilchrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 234.

†Pagellus remensis sp. n. LERICHE Lille Ann. soc. gcol. 37 p. 249 pl. vi fig. 9-11.

SCIAENIDAE.

Pogonias multidentatus, pharyngeal teeth compared with P. cromis, Micropogon undulatus, Cynoscion nebulosus, SMITH Amer. J. Sci. 28 pp. 275-280 fig. 1-13.

Pseudotolithus brunneolus sp. n. Formosa, Jordan and Richardson Pittsburg Mem. Carnegie Mus. 4 p. 191 pl. lxxi.

†Eques gatunensis sp. n. Otolith, Panama Jungtertiär, Toula Wion Jahrb. Geol. RehsAnst. 58 p. 688.

SERRANIDAE.

Epinephelus rosaceus Streets, du golfe de Californie, Pellegein Bul. Muséum Paris 1908 pp. 343-352.—E. modestus sp. n. S. Africa Gilchrist & Thompson Cape Town Ann. S. Afric. Mus. 6 p. 218.

Bodianus stellatus sp. n. British Guiana, Blosser Pittsburg Ann. Carnegie Mus. 6 pp. 297-298 pl. x.

Cheilodipterus subulatus sp. n., Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 p. 164.

Apogon brevicaudatus, argyrogaster, tubulatus, bilaciniatus, spp. n., Weben Leiden Notes Mus. Jentink 31 pp. 158-161. Siphamia gen. n. near Apogon, tubifer sp. n. Timor, Weber Leiden Notes Mus. Jentink 31 p. 168.

Rhabdamia gen. n. near Apogon, clupciformis, cypgelurus, spp. n. Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 pp. 165-167.

Apogonichthys nafae sp. n. Okinawa SNYDER Washington Proc. U. S. Nation. Mus. 36 No. 1688 pp. 599±600. —A. melampodus sp. n. British Guiana, BLOSSER Pittsburg Ann. Carnegic Mus. 6 pp. 296-297.

Foa fistulosa, longimana, spp. n. Malayischer Archipel, Weber Leiden Notes Mus. Jentink 31 pp. 162-163.

Cirrhites murrayi sp. n. Christmas I. Regan Proc. Zool. Soc. 1909 p. 404 pl. lxvi fig. 6.

ANACANTHINI.

GADIDAE,

Gadus luscus, description of young stage, M'Intosh Ann Mag. Nat. Hist. 3 p. 153.—G. callarias var. n. navaga aus dem Barentsmeer, Pietschmann Wien Ann. NatHist. Hofmus 22 pp. 293-307.

Bregmaceros atlanticus subsp. n. japonicus Japan, Tanaka Annot. Zool. Jap. 7 p. 27.

MACRURIDAE.

† Macrurus gatunensis sp. n. Otolith, Panama Jungtertiär, Toula Wien Jahrb. Geol. RehsAust. 58 p. 691.

Cynomacrurus gen. n. near Malacocephalus, pirici sp. n. Antartic, Dollo Edinburgh Proc. R. Soc. 29 р. 316.

Nematonurus lecointei rediscovered, Dollo Edinburgh Proc. R. Soc. 29 p. 488.

PERCESOCES.

Оригосернация.

Ophiocephalus striatus, nests, eggs and larvae, Willey Spolia Zeylan. 6 pl. xxiii pp. 108-123 2 pls.

SPHYRAENIDAE.

Sphyraena africana sp. n. S. Africa, GILCHRIST & THOMPSON Cape Town Ann. S. Afric. Mus. 6 p. 256.

ATHERINIDAE.

Menidia hatcheri sp. n. Patagonia, Eigenmann Rep. Princeton Univ. Exp. Patagonia 1896–1899 3 (Zoology) p. 281 pl. xxxvii fig. 4.

SCOMBRESOCIDAE.

Scombresocidae ihre Phylogenie und Ethologie, Schlesinger Wien Verh. Zool. Bot. Ges. 59 pp. 302-339.

Exocoetus exiliens L. Gmel., description of the type specimen, Günther Ann. Mag. Nat. Hist. 3 p. 147.

CATOSTEOMI.

SYNGNATHIDAE.

Pisces, Tl 1: Syngnathidae, Die Fauna Südwest-Australiens, Duncker Jena 1909 pp. 233-250.

Siphostoma yoshi sp. n. Tanegashima, Japan, Snyder Washington Proc. U. S. Nation. Mus. 36 No. 1688 pp. 597-598.

Ichthyocampus galei sp. n. Queensland, Duncker t.e. p. 240.

Ichthyocampus nox sp. n. Riu Kiu Is., Snyder Proc. U. S. Nation. Mus. 36 No. 1688 p. 598.

Urocampus güntheri sp. n. W. Austral, Duncker t.e. p. 242.

Microphis occilatus sp. n. Okinawa and southern Japan, SNYDER Proc. U. S. Nation. Mus. 36 No. 1688 pp. 598-599.

Solenostomidae.

Solenostoma laciniatum sp. n. Ceylon, Willey Spolia Zeylan. 6 pt. xxiii pp. 102-107.

Solenostomus leptosoma sp. n. Japan, Tanaka Annot. Zool. Jap. 7 p. 27.

CENTRISCIDAE.

Macrorhamphosus schotcli sp. n., West-Atlantik, Weber Helder Tijdschr. Ned. Dierk. Ver. (Ser. 2) 11 p. 77.

GASTROSTEIDAE.

Gustrosteus hologymnus Italy p. 436, santac-annae California p. 437, spp. n., REGAN Ann. Mag. Nat. Hist. 4.

HAPLOMI.

CYPRINODONTIDAE.

Cyprinodon dearborni sp. n. Curacao, Meek Chicago Field Columbian Mus. Pub. Zool. Ser. 7 p. 208.

Rivulus breviceps p. 49, holmiae p. 50, vaimacui p. 50, stagnatus pp. 50– 51, lanceolatus p. 51, frenatus p. 51, spp. n. British Guiana, Eigenmann Pittsburg Ann. Carnegic Mus. 6 1909.

Orestias agassizii, EVERMANN and RADCLIFFE Washington Proc. Biol. Soc. 22 pp. 167-170.

Acanthophacelus melanzonus pp. 51-52, bifurcus pp. 52-53, spp. n. British Guiana, Eigenmann Pittsburg Ann. Carnegie Mus. 6 1909.

Tomeurus gen. n. p. 53, gracilis sp. n. British Guiana, pp. 53-54, Eigenmann Pittsburg Ann. Carnegie Mus. 6 1909.

Poecilia heteristia sp. n. Para, Regan Ann. Mag. Nat. Hist. 3 p. 235.— P. caudata sp. n. Costa Rica, Meek Chicago Field Columbian Mus. Pub. Zool. Ser. 7 1909 pp. 209-210.

KNERHDAE.

Kneria cameronensis sp. n. S. Cameroon, BOULENGER Cat. Freshwater Fishes Africa 1 p. 171.

Scopelidae.

Lestidium japonicum sp. n. Tanaka Annot. Zool. Jap. 7 p. 27.

ESOCIDAE.

Esox reicherti Dyb., Berg St. Peterburg Mém. Ac. sc. 24 Taf. iii.

APODES.

ANGUILLIDAE.

Leptocephalus ectenurus sp. n. Formosa, Jordan and Richardson Pittsburg Mem. Carnegie Mus. 4 pp. 171–172 pl. lxvi.—L. rostratus, hotti, synopbranchi pinnati, hyoproroides, latus spp. n. Atlantic n. of Europe, Schmidt København Medd. Havunders. 3 Nr. 6 pp. 1–19.

Anguilla Fortpflanzung und Wanderungen (Norweg.) Dahl. Bergen Naturen 33 pp. 20-29.—A. rostrata (Le

Sueur) proper name of American eel, BEAN Science New York 29 pp. 871-872.

Muranichthys godeffroyi sp. n. Queensland, REGAN Ann. Mag. Nat. Hist. 4 p. 439.

Ophichthus evermanni sp. n. Formosa, Jordan and Rionardson Pittsburg Mem. Carnegie Mus. 4 p. 172 pl. lxvii.

Atopichthys phillipsi sp. n. New Jersey, Fowler Philadelphia Proc. Acad. Nat. Sci. 61 pp. 406-407, 1 f.

MURAENIDAE.

Muraena monostigma sp. n. Tahiti REGAN Ann. Mag. Nat. Hist. 4 p. 438.

Gymnomuræna polyspila p. 438; fasciolata, supraforata p. 439; spp. n. Pacific, REGAN Ann. Mag. Nat. Hist. 4.

√ Gymnothorax leucostigma sp. n. Formosa, Jordan and Richardson Pittsburg Mem. Carnegie Mus. 4 pp. 174–175 pl. lxviii.

SYMBRANCHII.

Symbranchus afer sp. n. Portuguese Guinea, BOULENGER Ann. Mag. Nat. Hist. 4 p. 430.

Cheilobranchus parvulus sp. n. Sydney, McCulloch Rec. Austr. Mus. 6 p. 316 fig.

OSTARIOPHYSI.

LORICARIIDAE.

Lithogenes gen. n. near Plecostomus p. 6, villosus sp. n. British Guiana, pp. 6-7, EIGENMANN Pittsburg Ann. Carnegie Mus. 6.

Corymbophanes gen. n. allied to Rhinelepis, p. 5, andersoni sp. n. British Guiana, pp. 5-6, EIGENMANN Pittsburg Ann. Carnegie Mus. 6.

Otocinclus arnoldi sp. n. La Plata, REGAN Ann. Mag. Nat. Hist. 3 p. 234.

Loricaria microdon pp. 7-8, griseus pp. 8-9, stewarti pp. 9-10, submarginatus pp. 10-11, spp. n. British Guiana, Eigenmann Pittsburg Ann. Carnegie Mus. 6.

SILURIDAE.

Clarias jaensis sp. n. South Cameroon, BOULENGER Ann. Mag. Nat. Hist. 4 p. 188.

Rhamdia nasuta sp. n. Costa Rica, Meek Chicago, Field Columbian Mus. Pub. Zool. Ser. 7 p. 207.

Amphilius nigricaudatus sp. n. L'Ogôoué Pellegrin Bul. muséum Paris 1909 p. 67.—A. nigricaudatus sp. n. p. 47, var. n. multipunctata p. 48 fig. 2 p. 50 Ngomo (Ogôoué) Pellegrin Paris Bul. soc. philom. 1.

Gephyroglanis tilpoi sp. n. Pellegrin Bul. Muséum Paris 1909 p. 243.

Auchenoglanis macrostoma sp. n. L'Ogôoué, Pellegrin Bul. muséum Paris 1909 p. 67.—A. macrostoma sp. n. Ngomo (Ogôoué) Pellegrin Paris Bul. soc. philom. 1 p. 48 fig. 1, p. 50.

Pygidium guianensis sp. n. British Guiana, Eigenmann Pittsburg Ann. Carnegie Mus. 6 1909 pp. 11-12.

Hatcheria gen. n., p. 248, patagoniensis sp. n. Patagonia, pp. 250-251, pl. xxxiii fig. 2; pl. xxxiv fig. 1 and 1a, Eigenmann Rep. Princeton Univ. Exp. Patagonia 1896-1899 3 (Zoology).

Vandellia wieneri sp. n. Pellegrin Paris C. R. Acad. sci. 149 p. 1016.

CYPRINIDAE.

A synopsis of the Cyprinidae of Pennsylvania, FOWLER Philadelphia Proc. Acad. Nat. Sci. 60 pp. 517-553 pl. xxvii.

Labeo weeksii sp. n. Upper Congo, BOULENGER Cat. Freshwater Fishes Africa 1 p. 310.

Capoëta (Pterocapoëta) ruwenzorii sp. n. L'Afrique orientale, Pellegrin Paris Bul. soc. zool. 34 p. 156.

Barbus alluaudi sp. n. L'Afrique orientale, Pellegrin Paris Bul. soc. zool. 34 p. 157.—B. deserti sp. n. Sahara, Pellegrin Bul. Muséum Paris 1909 pp. 239 and 412.

Schizothorax tibetanus, ladaensis, montanus, spp. n. Asia, Zugmayer Ann. Mag. Nat. Hist. 4 p. 433.

Campostoma brevis sp. n. Indiana, HASEMAN Indianapolis Proc. Acad. Sci. 1905 pp. 161–163. Macrhybopsis subgen. n. of Hybopsis for H. gelidus, Cockerell and Allison Washington Proc. Biol. Soc. 22 p. 162.

Notropis spp., seale characters, Cockerell and Callaway Washington Proc. Biol. Soc. 22 pp. 189–196, text fig.—N. kendalli Maine p. 186, universitatis Colorado p. 187, spp. n., Evermann and Cockerell Washington Proc. Biol. Soc. 22.—N. keimisp. n. Pennsylvania, Fowler Philadelphia Proc. Acad. Nat. Sci. 60 pp. 533–535 pl. xxvii.

Coccogenia subgen. n. of Notropis for N. coccogenis (Cope) Tennessee Cockerell and Callaway Washington D.C. Proc. Biol. Soc. 22 pp. 190-191.

Acheilognathus shimazui sp. n. Japan, Tanaka Annot. Zool. Jap. 7, pp. 1-15.

√ Rhodeus tanago, miobuta spp. n. Japan, Tanaka Tokyo J. Coll. Sci. 27 Art. 8 pp. 1-27 with pl.

Barilius lujae sp. n. Congo, Boulen-GER Cat. Mus. Luxembourg 1909 p. 9.

Gymnostomus barbatulus sp. n. Formose, Pellegrin Bul. Muséum Paris 1908 p. 263.

Candidia gen. n. for Opsariichthys barbatus Regan, JORDAN and RICHARD-SON Pittsburg Mem. Carnegie Mus. 4 p. 169.

Aspiorhynchus sartus sp. n. Asia, ZUGMAYER Ann. Mag. Nat. Hist. 4 p. 432.

Richardsonius thermophilus sp. n. Oregon: scale figured, EVERMANN and COCKERELL Washington Proc. Biol. Soc. 22 pp. 185-186, fig. 1.

Margariscus subgen. n. of Richardsonius type margarita, Cockerell Washington Proc. Biol. Soc. 22 p. 217.

Temeculina subgen. n. of Richardsonius, type orcutti, Cockerell Washington Proc. Biol. Soc. 22 p. 216.

Cobitidae, scales, Cockerell Washington Proc. Biol. Soc. 22 pp. 205-207.

Diplophysa labiata subsp. n. herzensteini russ. Turkestan, BERG St. Peterburg Ann. mus. zool. 14 pp. 10-11.

CHARACINIDAE.

Micralestes urotaenia sp. n. S. Cameroon, BOULENGER Cat. Freshwater Fishes Africa 1 p. 228.

Petersius pulcher p. 237, spilopterus p. 239, spp. n. Africa, BOULENGER Cat. Freshwater Fishes Africa 1.

Brycon bicolor sp. n. Amérique, Pellegrin Bul. muséum Paris 1909 p. 12.

Holobrycon gen. n. type Brycon pesu Müller & Troschel, Eigenmann Pittsburg Ann. Carnegie Mus. 6 p. 33.

Triurobrycon gen. n. type Brycon lundii Lütken, Eigenmann Ann. Carnegie Mus. 6 p. 33.

Bryconamericus heteresthes p. 105, stramineus p. 105, boops p. 105, breviceps pp. 105–106, Brazil; peruanus ricae Costa Rica p. 106, spp. n.; Eigenmann Bull. Mus. Comp. Zool. Harvard Coll. 52.—B. hyphesson sp. n. British Guiana, Eigenmann Ann. Carnegie Mus. 6 pp. 32–33.

Poecilocharax gen. n., bovalii sp. n. British Guiana, Eigenmann Ann. Carnegic Mus. 6 pp. 34-35.

Poecilobrycon gen. n. p. 43, type P. harrisoni p. 43, auratus pp. 43-44, erythrurus pp. 44-45, ocellatus pp. 45-46, spp. n. British Guiana, EIGENMANN Ann. Carnegie Mus. 6.

Creagrutus metanzonus sp. n. British Guiana, Eigenmann Ann. Carnegie Mus. 6 pp. 30-32.

Carnegiella gev. n. type Gasteropelecus strigatus Günther, Eigenmann Ann. Carnegie Mus. 6 p. 13.

Pterodiscus gen. n. near Gasteropelecus p. 12, P. levis sp. n. Para, p. 12, Eigenmann Ann. Carnegie Mus. 6.

Mocnkhausi'ı latissimus pp. 101-102, jamesi p. 102, comma p. 102, justac p. 102, melogrammus pp. 102-103, australe p. 103, barbouri p. 103, dichrourus subsp. n. intermedius spp. n. p. 103, lepidurus subsp. n. içae pp. 103-104, lepidurus subsp. n. gracilimus p. 104; cotinho p. 104, ceros pp. 104-105, spp. n., Brazil, Eigenmann Bull. Mus. Comp. Zool. Harvard 52.—M. browni pp. 13-15, shideleri pp. 15-16, spp. n. British Guiana, Eigenmann Ann. Carnegie Mus. 6.

Gymnocorymbus gen. n. resembling Moenkhausia p. 93, type G. thayeri sp. n. Brazil pp. 93-94, EIGENMANN Bull. Mus. Comp. Zool. Harvard 52.

Creatochanes gracilis sp. n. Brazil. Eigenmann Bull. Mus. Comp. Zool. Harvard **52** p. 106.

Brycochandus gen. n. near Creatochanes, type B. durbini sp. n. Brazil. Eigenmann Bull. Mus. Comp. Zool. Harvard 52 p. 106.

Phenacogaster megalostictus pp. 28–30, microstictus p. 30, spp. n. British Guiana; Eigenmann Ann. Carnegie Mus. 6.

Phygocentrus bilineatus sp. n. British Guiana; Eigenmann Ann. Carnegie Mus. 6 pp. 47–48.

Pristella aubynei sp. n. British Guiana; Eigenmann Ann. Carnegie Mus. 6 pp. 24–25.

Tetragonopterus gobbicervix sp. n. Brésil, Pellegrin Bul, Muséum Paris 1909 p. 152.

Poptella gen. n. nearest Fowlerina, type Tetragonopterus longipennis, Eigenmann, Bull. Mus. Comp. Zool. Harvard 52.

Ctenobrycon gen. n. resembling Astyanax type Tetragonopterus hauxwellianus Cope, Eigenmann Bull. Mus. Comp. Zool. Harvard 52 p. 94.

Astyanax regani sp. n. Costa Rica, MREK Field Columbian Mus. Pub. Zool. Ser. 7 pp. 207–208.—A. guianensis pp. 16–17, essequibensis pp. 17–18, mutator pp. 18–19, mucronatus pp. 19–20, abramoides pp. 21–22, potaroënsis pp. 22–24, spp. n. British Guiana; Eigenmann Ann. Carnegie Mus. 6.—A. asymmetricus p. 94, symmetricus p. 95, zonatus p. 95, anterior p. 95, bourgeti pp. 95–96, spp. n.; bimaculatus var. n. borcalis p. 96; janeiroensis p. 96, goyacensis p. 96, brevirhinus pp. 96–97, giton p. 97, spp. n.; albeolus nom. n. for A. ocrstedii Meek not Kröyer, p. 97; fasciatux subsp. n. parahybae pp. 97–98, scabripinnis subsp. n. intermedius, p. 98; multidens p. 98, gracilior p. 98, spp. n., Brazil; Eigenmann Bull. Mus. Comp. Zool. Haryard 52.

Cynopotamus bipunctatus Amérique, Pellegrin Bul. muséum Paris 1909 p. 13.

Deuterodon pinnatus sp. n. British Guiana, pp. 25-27, potaroënsis pp. 27-28, spp. n. British Guiana; Eigenmann Ann. Carnegie Mus. 6.—D. pedri pp. 98-99, parahybae p. 99, spp. n. Brazil; Eigenmann Bull. Mus. Comp. Zool. Harvard 52.

Hemigrammus cocruleus pp. 99-100, levis p. 100, spp. n. Brazil; EIGENMANN Bull. Mus. Comp. Zool. Harvard 52.—
H. erythrozonus pp. 55-58, rodway: 58-60, iota pp. 60-61, orthus pp. 61-62, cylindricus pp. 62-64, analis pp. 64-65, spp. n., British Guiana; Durbin Ann. Carnegie Mus. 6.

Hyphessobrycon subgen. n. (Hemi-grammus) type H. compressus (Meek), p. 100; H. compressus subsp. n. mil-leri Guatemala p. 100; serpae p. 100, copelandi p. 101, bentosi p. 101, Brazil; panamensis p. 101, Panama; melazonutus p. 101, Brazil. spp. n.; Etgen-Mann Bull. Mus. Comp. Zool. Harvard 52.

Hyphessobrycon minor pp. 65-66, rosaccus pp. 67-68, minimus pp. 68-69, cos pp. 69-71, strictus pp. 71-72, spp. n. British Guiana; Durbin Pittsburg Ann. Carnegie Mus. 6 1909.

Dermatocheir gen. n. near Hyphessobrycon, p. 55, D. catablepta sp. n. British Guiana, pp. 55-56; Durbin Pittsburg Ann. Carnegie Mus. 6.

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Pristella gen. n. near Hemigrammus, type Holopristes riddlei Meek, Eigen-Mann t.c. p. 99.

Psellogrammus gen. n. allied to Hemigrammus type H. kennedyi Eigenmann, Eigenmann t.c. p. 96.

Chirodon arnoldi sp. n. Mexico, Boulenger Ann. Mag. Nat. Hist. 4 p. 497.

Cheirodon gorgonae sp. n. Canal zone, EVERMANN and GOLDSBOROUGH Washington Proc. Biol. Soc. 22, pp. 99-101 text figs. 1-3.

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Champsoborus gen. n. allied to Mesoborus Pellegrin, pellegrini sp. n.. South Cameroon, Boulenger Ann. Mag. Nat. Hist. 4 p. 187.

Anostomoïdes gen. n. voisin de Anostomus atrianalis sp. n. Pellegrin Bul. Muséum Paris 1908 p. 346.

Characidium brevizostre sp. n. Pellegrin Bul: Muséum Paris 1908 p. 345.—C. laterale p. 36. vintoni pp. 36-37, blennioides pp. 37-38, zebra pp. 38-39, pellucidum pp. 39-40, pteroides p. 40, catenatum pp. 40-41, spp. n. British Guiana, Eigenmann Ann. Carnegio Mus. 6.

Jobertina subgen. n. (in gen. Characidium) p. 152, Characidium (Jobertina) interruptum sp. n. p. 151 Brésil, Pellegrin Bul. Muséum Paris 1909.

Hemiodus quadrimaculatus, argenteus, spp. n. Pellegrin Bul. Muséum Paris 1908 p. 344.

Nannostomus marginatus pp. 41-42, minimus p. 42, simplex pp. 42-43, spp. n. British Guiana, Eigenmann Ann. Carnegie Mus. 6.

Archicheir gen. n. near Nannostomus p. 46, A. minutus sp. n. British Guiana, pp. 46-47; EIGENMANN t.c.

Prochilodus kneri nom. n. (=Prochilodus insignis) Pellegrin Bul. Muséum Paris 1909 pp. 153-156.

Curimatus (Curimatella) alburnus Mullet Trosch var. n. caudimaculata Brésil, Pellegrin Bul. Muséum Paris 1909 p. 150.—C. aureus sp. n. Pellegrin Bul. Muséum Paris 1908 p. 343.

MALACOPTERYGII. .

Malacopterygii, Schwimmblase (Hollandisch), Beaufort Leiden 1908 p. 132 1 Taf.

ALEPOCEPHALIDAE.

Aleposomus watasii sp. n. Sagami Sea, Tanaka Tokyo J. Coll. Sci. 27 pp. 1-27 pl.

SALMONIDAE.

Salmo eremogenes sp. n., Washington, EVERMANN and NICHOLS Washington Proc. Biol. Soc. 22 pp. 93-94 pl. + ii.

e 6.

Salvelinus, revision of British species, gracillimus p. 115, inframunqus p. 116, maxillaris p. 117, mallochi p. 118, lonsdalei p. 119, spp. n. Great Britain, REGAN Ann. Mag. Nat. Hist. 3.—S. alpinus Verbreitung Stelneger Bergen Naturen 33 pp. 52-59, 128.

Coregonus ussuriensis var. n. schnidti Sungari, Berg St. Peterburg Mém. Ac. se. 24 9 pp. 53-54.—C. oregonius sp. n., western United States and British Columbia, JORDAN and SNYDER Smithsonian Inst. Proe. U.S. Nation. Mus. 36 425-430 pp. 425-429 1 fig.

Argyrosomus eriensis pp. 165-167, fig. 1, huronius pp. 167-169, fig. 2, zenithicus pp. 169-171, fig. 3, spp. n., 'Great Lakes, Jordan and Evermann Smithsonian Inst. U.S. Nation. Mus. Proc. 36.

CLUPEIDAE.

Clupea harengus the scales as a means of determining age, growth and migration Dahl. Rep. Norw. Fish. 2 No. 6 36 pp. pls. i-iii.—Clupea caspia kessleri, braschnikovi, grinnui, curensis, delicatula, cultriventris var. tscharchalensis, engrauliformis Beschrieben und abgebildet, Suvorov, Bei Borodin u. Suvorov, In: Arbeiten der Kaspischen Expedition des Jahres 1904. Bd. II, 1908, pp. 15-54, 247-280.

Pellonula obtusirostris sp. n. Congo BOULENGER Cat. Freshwater Fishes Africa 1 p. 158.

SAURODONTIDAE.

†Portheus Cope (Xiphactinus Leidy) aus dem böhmisehen Turon, BAYER Prag Rozpr. České Ak. Frant. Jos-1908 p. 12 mit 1 Taf.

†Proportheus gen. n. (Portheus), kameruni sp. n. Kreide Kamerun, JAEKEL Berlin Jahrb. geol. Landesanst 62 p. 396.

MORMYRIDAE.

Mormyrops batesianus sp. n. South Cameroon, Boulenger Ann. Mag. Nat. Hist. 4 p. 186.

Petrocephalus stuhlmanni sp. n. E. Africa, Boulenger Cat. Freshwater Fishes Africa 1 p. 56.—P. microphthalmus sp. n. Ngomo, Pellegrin

Bul. Mus. Paris 1908 p. 348 and Bul. soc. philom. 10 p. 185.

Marcusenius macrops sp. n. Congo, Boulenger Cat. Freshwater Fishes Africa 1 p. 84.—M. gaillardi sp. n. C. Africa, Peilegrin Bul. Mus. Paris 1909 p. 242.

Mormyrus bumbanus sp. n. South Cameroon Boulenger Ann. Mag. Nat. Hist. 4 p. 186.

ELOPIDAE.

Elops affinis Mexico p. 38, hawaiensis Hawaii, australis N. S. Wales p. 39, spp. n. Regan Ann. Mag. Nat. Hist. 3.

PHOLIDOPHORIDAE.

†Pleuropholis lævissima Egerton, new specimen figured, Johnston Geol. Mag. 6 p. 309 pl. xiii.

GANOIDEI.

HOLOSTEI.

Lepisosteus, subcutaneous vessels in the tail region Allen Amer. J. Anat. 8 1908 pp. 49-87 25 fig.

†Lepisosteus simplex from Eccene of Utah, Cockerell Science New York (N. Ser.) 29 p. 796.

CHONDROSTEI.

Palaeoniscidae of the Albert shales of New Brunswick, Lambe Amer. J. Sci. New Haven Conn. 28 pp. 165– 174, fig. 1-8.

†Elonichthys ellsi sp. n. New Brunswick Albert shales, pp. 171, 173, fig. 5-6, Lambe Amer. J. Sci. 28.

The lymphatic tissue of the kidney of *Polyodon spathula*, Downey Folia haematologica 8 pp. 415-466 mit 1 Taf.

ARTHRODIRA,

The systematic relationships of certain American arthrodires, Hussakor Bull. Amer. Mus. Nat. Hist. 26 pp. 263-272 pl. xlv ff. 1-8.

†Holonema ornatum sp. n. Old Red Sandstone of Shetland, Traquair Edinburgh Trans. R. Soc. 46 p. 327 pl. ii.

†Brachygnathus gen. n., type B. (Dinichthys) minor (Newberry), Hussa-Kof t.c. pp. 263-267 figs. 1-3.

†Dinognathus gen. n. D. ferox sp. n., Hussakof t.c. pp. 268-270, f. 5.

Mylostomid palatal dental plates, EASTMAN Bull. Mus. Comp. Zool. Harvard Coll. **52** pp. 259-269 text ff. i-iii.

OSTRACODERMI.

†Asterolepis sp. described and figured, Traquair Edinburgh Trans. R. Soc. 46 p. 322.

CHONDROPTERYGII.

HOLOCEPHALI.

Chimacra monstrosa, efferent duets of the testis, Parker and Burlend Anat. Anz. 34 pp. 331-336.

Rhinochimera atlantica sp. n. Irish Atlantic Slope, Holt and Byrne Ann. Mag. Nat. Hist. 3 p. 279.

Antiliochimaera. gen. n., with A. chaetirhamphus sp. n. Sagami Sea, TANAKA Tokyo J. Coll. Sci. 27 pp. 1–27 with pl.

PLAGIOSTOMI.

The selachians admitted as a distinct class, Gill Science 29 pp. 193-194.

Report on the Fishes taken by the Bengal Fisheries Steamer "Golden Crown." Part I. Batoidei, Annandale Mem. Ind. Mus. 2 No. 1, pp. 1-58 pls. i-v.

†Notidanus subrecurvus sp. n. Brünn Oppenneimer Wien Beitr. Pal. Geol. OestUng. 20 1907 pp. 221-271.

Chlamydoselachus, Kopf eines Embryos und die Segmentierung des Selachierkopfes, Brohmer Jenaische Zs. Natw. 44 pp. 647-698 4 Taf.

†Deltodus hanagavensis sp. n. LERICHE Lille Ann. soc. géol. 37 p. 275 pl. 8 fig. 2.

†Otodus obliquus L. Agassiz var. n. minor Leriche Lille Ann. soc. geol. 37 p. 242 pl. v fig. 1-5.

Orectolobus ogilbyi sp. n. Torres Straits, REGAN Ann. Mag. Nat. Hist. 3 p. 529.

Scyliorhinus platyrhynchus, macrorhynchus, spp. n. Japan, Tanaka Tokyo J. Coll. Sci. 27 pp. 1–27 pl.

Pristiurus sauteri sp. n. Formosa, Jordan and Richardson Pittsburgh Mem. Carnegio Mus. 4 pp. 160-161 pl. xiii fig. 1.

Scapanorhynchus jordani sp. n. Japan, Hussakof Bull. Amer. Mus. Nat. Hist. 26 pp. 257-262 pl. xliv ff. 1-3.

Acanthias vulgaris, Risso, l'évolution de l'utérus BLAIZOT Paris Mém. soc. zool. 22 pp. 1-48, fig.

Pristis, die Zähne am Rostrum, Engel Zool. Jahrb. Jena Abt. f. Anat. 29 pp. 51-100 4 Taf.

Raja hollandi sp. n. Formosa JORDAN and RICHARDSON Pittsburgh Mem. Carnegie Mus. 4 pp. 163-164 pl. lxiv.

Dactylobatus gen. n. near Raja (p. 459), armatus sp. n. deep water off Charleston, South Carolina pp. 459– 461, 1 fig., pl. xxxviii, BEAN and WEED Smithsonian Inst. U.S. 'Nation. Mus. Proc. 36 No. 1682.

Narcine brunnea sp. n. from the Bay of Bengal Annandale Mem. Ind. Mus. 2 No. 1 pp. 45-46 pl. iiia f. 2.

Bengalichthys gen. n. impennis sp. n. Balasore Bay, Orissa Coast, 15 fathoms, Annandale Mem. Ind. Mus. 2 No. 1 pp. 47-50 pl. iiia f. 7.

Trygon favus sp. n. Orissa Coast, pp. 25-26, pl. i, f. 3, pl. iii, f. 10.—alcockii Puri, Orissa Coast pp. 27-28.—jenkinsii off Ganjam Coast, spp. n. Annandale Mem. Ind. Mus. 2 No. 1 pp. 28-30.

Urogymnus laevior sp. n. Malpe, Malabar Coast Annandale Mem. Ind. Mus. 2 No. 1 pp. 37-38.

Benthobatis marcida pp. 677-679, 1 fig., cervina pp. 679-680, spp. n., off Charleston, S. C., in deep water, Bean and Weed Smithsonian Inst. U.S. Nation Mus. Proc. 36.

Myliobates nieuhofii (Bloch and Schnieder) var. n. cornifera Annan-DALE Mem. Ind. Mus. 2 No. 1 pp. 51-53 pl. ii fig. 4.

CYCLOSTOMI.

Ammocoetes, Gehirn, TRETJAKOFF Arch. mikr. Anat. 74 (pp. 636-779 9 Taf.

Das Nervensystem von Ammocoetes.
1. Das Rückenmark, Trettakoff Arch. mikr. Anat. 73 pp. 607-680
3 Taf.

Ammocoetes, Nervus mesencephalicus, Tretjakoff, Anat. Anz. 34 pp. 151-157.

Petromyzon, Akromerit und echte Ursegmente, Натвонек Могра. Jahrb. 40 pp. 480-499 2 Taf.

Petromyzon fluviatilis, Embryoherz, Tschermak Wien Sitzber. Ak. Wiss. 118 pp. 17-115.

Myxine, skeleton, Cole Edinburgh Trans. R. Soc. 46 p. 669.

Bdellostoma dombeyi acustico-lateral system, AYERS and WORTHINGTON Amer. J. Anat. 8 1908 pp. 1-16 8 pls.

XVI. REPTILIA AND BATRACHIA

ARRANGED BY

C. L. BOULENGER

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I .- TITLES.

Abel, O. Neuere Anschauungen über den Bau und die Lebensweise der Dinosaurier. Wien Verh. ZoolBot. Ges. 59 1909 ((117)-(123)).

Ahrend, W. Ein Fall von Beharrung im Larvenstadium bei der Knoblauchskröte. Bonn SitzBer. Ges. Natk. 1908 1909 Ber. bot.-zool. Ver. (43-44).

Aimé, Paul. Figures de division dans les nucléoles des grandes cellules de l'organe de Bidder chez Bufo calamita. AC. R. Ass. anat. Paris 10 (Marseille 1908) Paris 1908 (134-138).

Aimé, P. et Champy, Christian. Note sur l'ablation de l'organe de Bidder du Crapaud. Paris C. R. soc. biol. 67 1909 (181-182).

Alexeieff, A. Les Flagellés parasites de l'intestin des Batraciens indigènes. Paris C. R. soc. biol. 67 1909 (199-201).

Allard, H. A. Notes on some salamanders and lizards of north Georgia. Science New York N.Y. 30 1909 (122-124).

Allard, H. A. Notes on two common turtles of eastern United States. [Clemmys guttatus and C. insculptus.] Science New York N.Y. 30 1909 (453-454).

Anderson, R. J. The epiphyses of long bones (chiefly in Sauropsids). Rev. Brit. Ass. London 1908 1909 (745–746).

Andersson, Lers Gabriel. Ueber einige Hylambates-Formen Kameruns. Wiesbaden Jahrb, Ver. Natk. 62 1909 (103-110),

Andrews, C. W. On some new Steneosaurs from the Oxford Clay of Peterborough. Ann. Mag. Nat. Hist. London 3 1909 (299-308 384) pls. 10

Andrews, C. W. On some new Plesiosauria from the Oxford Clay of Peterborough. Ann. Mag. Nat. Hist. London 4 1909 (418-429).

Arldt, Th. Die Stegocephalen und ihre Stellung unter den Wirbeltieren. Natw. Rdsch. Braunschweig 24 1909 (353-355).

Athanasiu, J. et Dragoin, J. Sur la migration de la graisse dans le corps de la Grenouille pendant les quatre saisons. Paris C. R. soc. biol. 67 1909 (135-137).

Auer, Erwin. Ueber einige Krokodile der Juraformation. Palaeontographica Stuttgart 55 1909 (217-294) 5 Taf. 13

Babák, Edward. Ueber die Ontogenie des Atemzentrums der Anuren und seine automatische Tätigkeit. Unter Mitwirkung von R. Vinar. Arch. ges. Physiol. Bonn 127 1909 (481-506).

Babák, E. Příspěvky ku všeobecné fysiologii nervové získané při vyzkumu chromatické činnosti kožni u obojživelniku. [Beitraege zur allgemeinen Physiologie der Nerventhätigkeit, erworben bei der Prüfung der chromatischen Hautfunktion der Amphibien.] Čas. Lékař. Česk. Prag 1909 (1388–1390).

Babák, E. und Kühnová, M. Über den Atemrhythmus und die Ontogenie der Atembewegungen bei den Urodelen. Arch. ges. Physiol. Bonn 130 1909 (444-476). Bächler, Emil. Giftschlangen in der Schweiz. St. Gallen Jahrb. Natw. Ges. 1908 1907 (35-40). 17

Barbier, Henri. Sur la faune erpétologique de Pacy-sur-Eure. Feuille jeunes natural. Paris 38 1908 (236).

Barbier, H. A propos de Bombinator pachypus var. brevipes Ch. Bonap. et Blasius. Feuille jeunes natural. Paris 39 1909 (162). 19

Barbour, Thomas. Corrections regarding the names of two recently described Amphibia Salientia. Washington D.C. Proc. Biol. Soc. 22 1909 (89).

Barbour, T. On the true status of the genus Cacopoides. Philadelphia Pa. Proc. Acad. Nat. Sc.. 61 1909 (401-405) pls. xvii-xviii. 21

Barbour, T. Some new South American cold-blooded vertebrates. Cambridge Mass. Proc. New Engl. Zool. Cl. 4 1909 (47-52) pls. iv-v. 21a

Barbour, T. Notes on Amphibia and Reptilia from eastern Asia. Cambridge Mass. Proc. New Engl. Zool. Cl. 4 1909 (53-78) pls. vi-vii. 22

Bassetta, A. et Branca, A. Recherches sur la kératinisation. — Sur la structure et le développement des formations cornées vestibulaires chez Alytes obstetricans Wagler. J. anat. physiol. Paris 44 1908 (249-270) 2 pls.

Bataillon, E. Le rôle de l'eau extérieure dans la fécondation et les premiers stades du développement chez Rana fusca. Paris C. R. Acad. sei. 148 1909 (1418–1421).

Bataillon, E. Contribution à l'analyse expérimentale des processus de fécondation chez les Amphibiens. Paris C. R. Acad. sci. 148 1909 (1551-1553).

Bataillon, E. L'imprégnation hétérogène sans Amphimixie nucléaire chez les Amphibiens et les Echinodermes (à propos du récent travail de H. Kupelwieser). Arch. EntwMech. Leipzig 28 1909 (43-48). 26

Baumeister, Ludwig. Beiträge zur Anatomie und Physiologie der Rhinophiden. Integument, Drüsen der Mundhöhle, Augen und Skeletsystem. (n-11091 d) Basel Phil. Diss. 1907-08 (IV + 104) 4 Taf. 8vo. 26a

Baygei, I. A. Gady i plazy Galicyi z uwzględnieniem ich geograficznego rozmieszczenia. [Die Reptilien und Amphibien Galiziens mit Berücksichtigung ihrer geographischen Verbreitung.] Kosmos Lwów 34 1909 (263–285). 27

Bayger, I. A. Lacerta agilis L. var. Dzieduszycki m (z jedną ryciną w tekście.] Kosmos Lwów 34 1909 (286– 289).

Beddard, F. E. Some notes on the muscular and visceral anatomy of the batrachian genus *Hemisus*, with notes on the lymph-hearts of this and other genera. London Proc. Zool. Soc. 1908 1909 (894–934).

[Bedriaga, I. V.] Бедряга, И. В. Земноводныя и пресмыкающияся. [Amphibia und Reptilia.] In: Wissenschaftliche Resultate der von N. M. Przewalski nach Centralasien unternommenen Reisen. Herausgegeben von der Kais. Akademie der Wissenschaften. Zoologischer Theil, Bd III, Abth. 1. Lief. 3 [Lacertilia]. St. Petersburg 1909 (279–502) mit Taf. v-vii (Russ. u. Deutsch.) 33 cm. 30

[Berg, L.] Бергъ, Л. О нахожденін Pelobates fuscus Laur. въ Тюменскомъ у. [Le Pelobates fuscus Laur., trouvé dans le district de Tioumen, gouv. de Tobolsk.] St. Peterburg Ann. mus. zool. 14 1909 (iii-iv). 31

[Berg, L.] Coronella austriaca Laur. изъ Зап. Сибири. [Sur la Coronella austriaca Laur., trouvée dans le district de Kourgan, gouv. de Tobolsk.] St. Peterburg Ann. mus. zool. 14 1909 (iv).

[Bianchi, V.] Біанки, В. Reptilia и Amphibia С.-Петербургской губерніи. [Арегси sur les Reptiles et les Amphibiens du gouv. de St. Pétersbourg.] St. Peterburg Ann. mus. zool. 14 1909 (131-135).

Billard, G. Immunité naturelle du Lérot commun (Eliomys nitela Wagner) contre le venin de la Vipère. Paris C. R. soc. biol. 67 1907 (90-91). 34

Blanc, Marius. Sur les reptiles de Provence. Feuille jeunes natural. Paris 39 1909 (192). Boettger, O. Die Aeskulapschlange (Coluber longissimus Laur.) im Böhmerwald und die Zornnatter (Zamenis gemonensis Laur.) im Böhmerwald, in den Kleinen Karpathen, Süd-Steiermark und Kärnten. Zool. Beob. Frankfurt a. M. 50 1909 (341-342). 36

[Bogoliubov, N. N.] Боголюбовъ, Н. Н. Объ остаткахъ двухъ пресмыкающихся (Cryptoclidus simbirskensis n. sp. и Ichthyosaurus steleodon n. sp.), найденныхъ профес. А. П. Павловымъ на Волгъ, въ Симбирскихъ мезозойныхъ отложеніяхъ [Sur quelques restes de deux reptiles (Cryptoclidus simbirskensis n. sp. et Ichthyosaurus steleodon n. sp.), trouvés par Mr. le Profes. A. P. Pavlow sur les bords de la Volga, dans les couches mésozoiques de Simbirsk.] Ann. géol. minér. Nova-Alexandria 11 1-3 1909 (42-61 + rés. franç. 61-64) av. pl. ii.

[Bogoliubov, N. N.] Боголюбовъ, Н. H. О портландскихъ ихтіозаврахъ. [Ueber die Portland-Ichthyosaurier.] Moskva Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910 g. [Prot.] 1909 (143–144).

Bolkay, István. A magyarországi békák lárvái. [Die Larven der in Ungarn einheimischen Batrachier.] Ann. Hist.-Nat. Mus. Nat. Hung. Budapest 7 1909 (71-117) Taf. i-ii. 39

Bolkay, István. A békalárvák visszaszerző erejéről. [Über die Regenerationskraft der Froschlarven.] Termt. Közl. Budapest 41 1909 (616-617).

Bolkay, István. A khinai béka (Rana chinensis) systematikai értéke, [Der systematische Wert von Rana chinensis.] Állatt. Közlem. Budapest 8 1909 (53-68) Taf. viii. 41

Bouet, G. Sur deux hémocytozoaires pigmentés des reptiles. Paris C. R. soc. biol. 66 1909 (43-45). 42

Bouet, G. Sur quelques trypanosomes des Vertébrés à sang froid de l'Afrique occidentale française. Paris C. R. soc. biol. 66 1909 (609-611). 43

Boulenger, G. A. A list of the freshwater fishes, batrachians and reptiles obtained by Mr. J. Stanley Gardiner's expedition to the Indian Ocean. London Trans. Linn. Soc. 12 1909 (291-300) pl. xl.

Boulenger, G. A. Zoological Results of the Ruwenzori Expedition, 1905– 1906, Pt. iii, Pisces, Batrachia, and Reptilia. London Trans. Zool. Soc. 19 1909 (237–252) pls. viii & ix. 44a

Boulenger, G. A. Description of a new species of *Lacerta* from Persia. London Proc. Zool. Soc. 1908 1909 (934-936) pl. lxvii.

Boulenger, G. F. Description of a new Lizard of the genus Acanthodactylus from Syria. Ann. Mag. Nat. Hist. London 4 1909 (188-189). 46

Boulenger, G. A. Descriptions of four new frogs and a new snake discovered by Mr. H. Sauter in Formosa. Ann. Mag. Nat. Hist. London 4 1909 (492–495).

Boulenger, G. A. Descriptions of three new frogs discovered by Dr. P. Krefft in Usambara, German East Africa. Ann. Mag. Nat. Hist. London 4 1909 (496-497).

Boulenger, G. A. On a second collection of reptiles, batrachians and fishes made by Dr. E. Bayon in Uganda. Genova Ann. Mus. Civ. Ser. 3A 4 1909 (302-307).

Boulenger, G. A. List of reptiles collected by Capt. G. Ferrari at Jumbo, Lower Juba. Genova Ann. Mus. Civ. Ser. 3A 4 (303-309).

Boulenger, G. A. List of reptiles and batracians collected by Capt. U. Ferrandi at Bardera. Genova Ann. Mus. Civ. Ser. 34 4 1909 (310-311). 46e

Branca, A. vide Bassetta, A.

Braus, H. Gliedmassenpfropfung und Grundfragen der Skeletbildung. I. Die Skeletanlage vor Auftreten des Vorknorpels und ihre Beziehung zu den späteren Differenzierungen. Morph. Jahrb. Leipzig 39 1909 (155–301) 3 Taf.

Brodrick, Harold. Note on casts of Dinosaurian footprints in the Lower Oolite at Whitby. Rep. Brit. Ass. London 1908 1909 (707-708). 48

Broili, F. Systematische und biologische Bemerkungen zu der permischen Gattung Lysorophus. Anat. Anz. Jena 33 1908 (290-298).

64

Broili, F. Neue Iehthyosaurierreste aus der Kreide Norddeutschlands und das Hypophysenloch bei Iehthyosauriern. Palacontographica Stuttgart 55 1909 (295–305) 1 Taf. 50

Broili, F. Ein Dieynodontierrest aus der Karooformation. N. Jahrb. Min. Stuttgart 1908 I (1-15) 1 Taf. 51

Broom, R. Exhibition of the skulls of two S. African fossil reptiles—Lycosuchus vanderrieti and Bauria cynops. London Proc. Zool. Soc. 1909 (679).

Broom, R. On the skull of Tapino-cephalus. Geol. Mag. London 6 1909 (400-402).

Bryan, B. Notes on the habits of the Blind-worm and Common Lizard. Trans. N. Staffs. F. C. 42 1908 (74-81).

Bukowska, Jadwiga. Ein Beitrag zur geschlechtlichen Differenzierung bei Urodelen. (Amblystoma mexicanum.) Diss. Berlin (Druck v. E. Ebering) 1909 (31) 1 Taf. 23 cm. 55

Burne, R. H. Exhibition of, and remarks upon, certain elastic mechanisms in fishes and reptiles. London Proc. Zool. Soc. 1909 (201-204). 56

Calmette, A. Les Serpents venimeux et leurs venins. Rev. sci. Paris sér. 5 11 1909 (705-712). 57

Calmette, A. L'hémolysine des venins des serpents. Bul. Inst. Pasteur Paris 5 1907 (193-200). 58

Carini, A. Sur une hémogrégarine du Leptodactylus pentadactylus. Paris Bul. soc. path. exot. 2 1909 (460-469 471).

Carini, A. Sur une hémogrégarine du Carman latirostris Deud. Paris Bul. soc. path. exot. 2 1909 (471-472).

Carruccio, Antonio. Esemplari di Vipera ammodytes del Montenegro donati al Museo zoologico di Roma da S. M. la Regina Elena. Roma Boll. Soc. zool. ital. 10 1909 (278-286).

Case, E. C. The dorsal spines of Chameleo cristatus, Stuch. Science New York N.Y. N. Scr. 29 1909 (979).

Catouillard, G. Sur un trypanosome du gecko commun de Tunisic. Paris C. R. soc. biol. 67 1909 (804-805). 63 Catouillard. Sur une hémogrégarine d'Acanthodactylus boskianus. Arch. Inst. Pasteur Tunis 4 1909 (145-146).

Cecconi, Giacomo. Intorno al nutrimento dell' Agama stellio L. Torino Boll. Musei zool. anat. 24 1909 N. 598 (1-2). 65

Champy, Christian. Mitochondries et corps chromatoïdes des spermatogonies des anoures. Paris C. R. soc. biol. 66 1909 (215-217). 66

Champy, C. La réduction chromatique chez les Batraciens anoures. Paris C. R. soc. biol. 66 1909 (303-305).

Champy, C. Sur la dégénérescence des spermatogonies chez la Grenouille verte (Rana esculenta). C. R. ass. anat. Paris 10 (Marseille 1908) Nancy 1908 (139-143). 68

Champy, C. vide Aimé, Paul.

Chubb, E. C. The batrachians and reptiles of Matabeleland. London Proc. Zool. Soc. 1909 (590-597). 69

Conor, A. Sur une hémogrégarine rencontrée chez Acanthodactylus pardalis. Arch. Inst. Pasteur Tunis 4 1909 (143-144). 70

Cords, Elisabeth. Die Entwickelung der Paukenhöhle von Lacerta ayilis. Ein Beitrag zur Lehre vom schallleitenden Apparat der Wirbeltiere. Anat. Hefte Wiesbaden Abt. I 38 1909 (223-310) 2 [1] Taf.

Corti, A. Contributo alla conoscenza degli elementi granulosi delle ghiandole cutanee di *Triton cristatus*. Monitore zool. ital. Firenze 20 1909 (68-70).

Cox, L. H. Exhibition of a living specimen of the Amblystome. London Proc. Zool. Soc. 1909 (599).

Dahms, Paul. Ueber das Vorkommen der Sumpfschildkröte in Westpreussen. Wanderer Ostpr. Elbing 6 1909 (70-72). 73a

Dahms, P. Weitere Mitteilungen über das Vorkommen der Sumpfschildkröte, Emys europaea Schweigg., in Westpreussen. Danzig Ber. bot.zool. Ver. 31 1909 (143-162). 74 Dehant, G. Note sur l'Euproctus montanus, Urodèle apneumone caractéristique de la faune corse. Paris C. R. soc. biol. 67 1909 (413-414). 75

Dehant, G. vide Phisalix, Mme.

Dendy, A. The intracranial vascular system of Sphenodon. Phil. Trans. R. Soc. 200 B 1909 (403-426) pl. xxxi.

Dendy, A. The intracranial vasular system of Sphenodon. (Abstract.) London Proc. R. Soc. 81 1909 (290-291). 76a

Deniker, J. et Laffitte, J. P. Autour du *Diplodocus*. Nature Paris 37 2° sem. 1909 (221–223).

[Dinnik, N. Ja.] Динникъ, Н. Я. Несколько словъ по поводу нахожденія на Кавказ'т краснобрюхой жерлянки и чесночницы. [Bemerkungen über den Fund von Bombinator igneus und Pelobates fuscus im Kaukasus.] Tiflis Mitt. Kauk. Mus. 4 1909 (259–261 + deutsch. Rés. 262).

Divine, Julia. Ueber die Atmung der Herzen von Kröten und Fröschen. Bern Med. Diss. 1905-06 (46). 8vo.

Dragoin, J. vide Athanasin, J.

Dustin, A. P. Contribution à l'étude du thymus des reptiles. Cellules épithélioïdes, cellules myoïdes et corps de Hanel. Arch. zool. Paris sér. 5 2 1909 (23-427).

Eiffe, O. Edm. Seltene Laubfrösche in der Gefangenschaft. Zool. Beob. Frankfurt a. M. 50 1909 (208–212) 1 Taf.

Fahr, Aenny. Meine Chamaeleone. Bl. Aquarienkunde Stuttgart 20 1909 (801-803 817-818). 82

Fischer-Siegwart, H. Les colonies de crapauds au printemps. Arch. Sci. Phys. Genève (4) 22 1906 (373-374); Verh. Schweiz. Natf. Ges. Aarau 89 1906-07 (74-75 77-78).

Fitz-Simons, F. W. On the toxic action of the bite of the Boomslang or South African Tree-Snake (Dispholidus typus). Ann. Mag. Nat. Hist. London 3 1909 (271-278).

Fleissig, Julius. Zur Anatomie der Nasenhöhle von *Cryptobranchus* japonicus. Anat. Anz. Jena 35 1909 (48-54). 85 Fletcher, T. Bainbrigge. Notes on snakes from Diyatalawa, Ceylon. Spolia Zeylan. Colombo 5 pt. 18 1908 (98-101). 86

Floericke, Kurt. Kriechtiere und Lurche Deutschlands. 4. Aufl. [Populär.] Stuttgart (Franckh) [1909] (112). 21 cm. 87

Fowler, Henry W. The amphibians and reptiles of New Jersey. Annual Report of the New Jersey State Museum Trenton 1906 1907 (23-250) pl. 88

Fowler, H. W. A supplementary account of New Jersey amphibians and reptiles. Annual Report of the New Jersey State Museum Trenton 1907 1908 (190-202) pl. 89

Fraas, E. Rana hauffiana n. sp. aus den Dysodilschiefern des Randekker Maares. Stuttgart Jahreshefte Ver. Natk. 65 1909 (1-7). 90

França, Carlos. Sur une hémogrégarine de *Lacerta ocellata* en Tunisie. Arch. Inst. Pasteur Tunis 4 (139-142). 91

França, C. Sur un hématozoaire nouveau de *Psammodromus algirus*. Paris Bul. soc. path. exot. 1 1908 (595-596). **92**

François-Franck, Ch. A. Études de mécanique respiratoire compareé. Les mouvements et pressions respiratoires des Batraciens. I: Etat général de la question. Données de technique graphique et chronophotographique. Paris C. R. soc. biol. 65 1908 (603-666). 93

François-Franck, Ch. E. Études critiques et expérimentales sur la mécanique respiratoire comparée des Reptiles. II, Lacertiliens fissilingues (Lézard ocellé). Arch. zool. Paris sér. 4 10 1909 (547-615). 94

Fraser, T. R. and Gunn, J. A. The action of the venom of Sepedon hæmachates of South Africa. Phil. Trans. R. Soc. London 200 B 1909 (241-269).

Fraser, T. R. and Gunn, J. A. The action of the venom of Sepedon hamachates of South Africa. London Proc. R. Soc. B 81 1909 (80-81).

Fuchs, Hugo. Ueber die morphologische Bedeutung der Sacralrippen. Anat. Anz. Jena 34 1909 (349-356 526).

Fuhrmann, O. Quelques cas d'hermaphroditisme chez *Bufo vulgaris*. (C. R. Soc. helv. Sci. nat.) Arch. Sci. Phys. Genève 28 1909 (499–500).

Furlotti, A. Ricerche sulle ghiandole cutanee del Tritone crestato.
Monitore zool. ital. Firenze 20 1909 (70-74).

Gay, G. Sulla coda mostruosa delle lacertole. Monitore zool. ital. Firenze 20 1909 (84).

Geyer, Hans. Die Umwandlung des Axolotl in die landbewohnende Form. Bl. Aquarienkunde Stuttgart 20 1909 (370-373 413-415).

Gilmore, Charles W. A new rhynchocephalian reptile from the Jurassic of Wyoming, with notes on the fauna of "Quarry 9." Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 37 No. 1698 1909 (35-42) pl. xi.

Gilmore, Charles W. Osteology of the Jurassic reptile Camptosaurus, with a revision of the species of the genus, and descriptions of two new species. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 36 No. 1666 1909 (197-332) fig. 1-48 pl. vi-xx.

Godon, J. Contributions à la faune des Vertébrés de la région du Nord. Feuille jeunes natural. Paris 38 1908 (83-84 142).

Goggio, Empedocle. Studi sperimentali sopra larve di Anfibi anuri (Sviluppo indipendente di due porzioni separate per mezzo di un taglio). Parte 3^a. Pisa Atti Soc. tosc. sc. nat. Memorie 25 1909 (21-58).

Gough, L. H. The South African species of Agama. Lacertilia. Ann. Transvaal Mus. Pretoria 1 pt. i 1909 (183-194) pls. xvii-xxiv. 107

Gräper, Ludwig. Ueber eine dreischwänzige Eidechse mit sieben Schwanzskeleten. Arch. EntwMech. Leipzig 27 1909 (640-659) 1 Taf. 108 Green, E. E. Note on the death of a cooly from snake-bite. Spolia Zeylan. Colombo 5 pt. 18 1908 (103).

Green, E. E. The bite of the "Brahminy Lizard" Spolia Zeylan. Colombo 5 pt. 18 1908 (104).

Green, E. E. Another fatality from snake-bite. Spolia Zeylan. Colombo 5 pt. 18 1908 (104).

Green, E. E. Arborcal habit of the "Kabaragoya" (Varanus salvator, Laur.). Spolia Zeylan. Colombo 6 pt. xxiii 1909 (131).

Green, E. E. Action of cobra venom on its own body. Spolia Zeylan Colombo 6 pt. xxiii 1909 (134).

Grochmalicki, Jan. Ueber Missbildungen von Salamanderlarven im Mutterleib. Arch. EntwMech. Leipzig 28 1909 (181-209) 2 Taf. 114

Gross, O. Transplantations-Versuche an Hartgebilden des Integuments und der Mundschleimhaut bei Teleostieren und Amphibien. Basel Phil. Diss. 1905-06 (88). 8vo. • 115

Guérin-Ganivet, J. Note sur la présence de *Tropidonotus natrix* Lin. dans l'eau de mer. Bul. mus. océan. Monaco n° 132 1909 (2).

Hagmann, Gottfried. Die Reptilien der Insel Mexiana, Amazonenstrom. Zool. Jahrb. Jena Abt. f. Syst. 28 1909 (273-504) 1 Taf. 117

Haller, B. Über die Hypophyse niederer Placentalier und den Saccus vasculosus der urodelen Amphibien. Arch. mikr. Anat. Bonn 74 1909 (812– 843) 2 Taf.

Harms, W. Versuche über Beschleunigung der Regeneration durch aktive Bewegung. Zool. Anz. Leipzig 34 1909 (374-379).

Harms, W. Ueber den Einfluss des Hungers auf die Wirbelsäule der Tritonen. Verh. D. zool. Ges. Leipzig 19 1909 (307-312).

Hay, Oliver P. Dr. Williston on "The fossil turtles of North America." Science New York N.Y. 29 1909 (341-342).

Heine, Leopold. Akkomodation des Schildkrötenauges. Münchener med. Wochenschr. 56 1909 (45). 122

Hennemann, W. Ueber die Bergeidechse (Lacerta vivipara Jacq.) im Sauerlande. Münster Jahresber. ProvVer. Wiss. 37 (1908-09) 1909 (39-41).

Hérelle, F. d' et Seidelin. Sur deux microfilaires du sang des Serpents. Paris C. R. soc. biol. 67 1909 (409-411).

Heritsch, Franz. Jungtertiäre Trionyxreste aus Mittelsteiermark. Wien Jahrb. Geol. RchsAnst. 59 1909 (333–382) 2 Taf. 125

Hickling, G. British Permian footprints. Manchester Mem. Proc. Lit. Phil. Soc. 53 1909 No. 22 (1-24) pls. i-iv. 126

Hirzel, Heinrich. Zur Kenntnis der intrauterinen Entwickelung von Salamandra atra. Jenaische Zs. Natw. 45 1909 (1556) 3 Taf. 127

Hirzel, H. Zur Kenntnis der intrauterinen Entwickelung von Salamandra atra. Zürich Phil. Diss. H. S. Jena 1909 S.-A. aus der Jona Zeite Naturwissenschaft 45 N.F. 38 1909 (2 + 56). 3 Taf. 22 cm.

Hochstetter, F. Beiträge zur Entwicklungsgeschichte der europäischen Sumpfschildkröte (Emys lutaria Marsigli). 2. Die ersten Entwicklungsstadien der Lungen und die Bildung der sogenannten Nebengekröse. Wien Denkschr. Ak. Wiss. Mat. Nat. Kl. 84 1909 (111–161) 4 Taf. 128

Holland, William Jacob. Deinosuchus hutcheri, a new genus and species of crocodile from the Judith river beds of Montana. Pittsburg Pa. Ann. Carnegie Mus. 6 1909 (281-294).

Huene, F. v. Skizze zu einer Systematik und Stammesgeschichte der Dinosauriern. Centralbl. Min. Stuttgart 1909 (12-22).

Hulanicka, R. O zakończeniach nerwowych w skórze żaby jadalnej (Rana escul.). [Recherches sur les terminaisons nerveuses dans la peau de Rana escul.] Kraków Rozpr. Akad. Um. 9 B 1909 (215–226). 131 Hulanicka, R. O zakończeniach nerwowych w skórze żaby jadalnej. (Rana escul.) [Recherches sur Ics terminaisons nervcuses dans la peau dc Rana escul.] Kraków Bull. Intern. Acad. 1909 2° Sem. (687–689). 132

Hurter, Julius and Strecker, John K. jun. The amphibians and reptiles of Arkansas. St. Louis Mo. Trans. Acad. Sci. 18 1909 (11-27).

Itkonen, Toivo. Pohjoisia kyykäärmelöytöjä. [Nördliche Funde von Pelias berus L.] Luonnon Ystävä Helsingfors 13 1909 (115). 134

Jacob, E. Zur Pathologie der Urodelen und Anuren. Zool. Anz. Leipzig 34 1909 (628-638).

Jackel, O. Ueber die Klassen der Tetrapoden. Zool. Anz. Leipzig 34 1909 (193-212).

Jennison, G. Exhibition of, and remarks upon, some fertilized eggs from a pair of Seba pythons. London Proc. Zool. Soc. 1909 (392).

Jockisch, H. R. Einiges üter unsere deutschen Amphibien. Bl. Aquarienkunde Stuttgart 20 1909 (153-166).

Jones, F. W. The fauna of Cocos-Keeling Atoll, collected by F. Wood Jones. London Proc. Zool. Soc. 1909 (132-160).

[Jurinskij, Т.] Юринскій, Т. Обзоръ весеннихъ фенологическихъ явленій природы въ Восточной Сибири въ 1905 и 1906 годахъ. [Uebersicht der phänologischen Frühjahrserscheinungen in Ostsibirien in den Jahren 1905 u. 1906.] Irkutsk Izv. Vost.-Sib. otd. russ. geogr. Obšč. 38 1907 [1909] (32-63).

Kammerer, erzwungener sungen. III. hommen der nicht brutpflegenden Alytes obstetricans. Mech. Leipzig 28 1909 (447-545) mit 2 Taf.

Kammerer, P. Coluber longissimus im Böhmerwald, Zamenis gemonensis im Böhmerwald, Wicnerwald, den kleinen Karpathen, Süd-Steiermark und Kärnten. Zool. Jahrb. Jena Abt. f. Syst. 27 1909 (647-660). Kammerer, P. Zwei Beiträge zur Gewohnheitslehre (Ethologie) der Mauereidechse. [1. Instinctabänderungen in d. Art, wie sie ihren Feinden entslieht. 2. Aufenthaltsorte.] Wochenschr. Aquaricnk. Braunschweig 6 1909 Beilage Lacerta (4 7-8 11-12 16 18-20).

Kammerer, P. Die Rolle der Wassernattern (*Tropidonotus*) an Teichufern. Fischereiztg Neudamm 12 1909 (605-608).

Kampen, P. N. van. Die Amphibienfauna von Neu-Guinea, nach der Ausbeute der niederländischen Süd-Neu-Guinea Expeditionen von 1904–1905 und 1907. Nova Guinea, Résultats de l'expédition scientifique néerlandaise à la Nouvelle Guinée en 1907 sous les auspices du Dr. H. A. Lorentz Vol. 9 1909 Leide (E. J. Brill) (31-49) 1 Taf.

Kampen, P. N. van. Das Vorkommen von Rana hosii Blgr. auf Java. Buitenzorg Bull. Dép. Agric. Indes Néerl. 25 1909 (1-2).

Kampen, P. N. van. Liste der Amphibien des Indischen Archipels im Museum zu Buitenzorg. Buitenzorg Bull. Dép. Agric. Indes Néerl. 25 1909 (3-9).

[Kaščenko, N. Th.] Кащенко, Н. Ө. Гады, собранныхъ среднеазіатскими экспедиціями проф. В. В. Сапожникова въ 1902-6 и 1908 гг. [Les reptiles et amphibiens pris dans les expéditions 1902-6, 1908 du Prof. V. V. Sapožnikov dans l'Asie centrale.] St. Peterburg Ann. mus. zool. 14 1909 (119-130).

[Kaščenko, N. Th.] Кащенко, Н. Ө. Ядовитыя эмізи вападной Сибири и Туркестана. [Die giftigen Schlangen von West-Sibirien und Turkestan.] Jestestv. i geogr. Moskva 14 1909 3 (38-44).

Kastchenko, N. Th. vide Kaščenko, N. Th.

Kemp, S. W. Lacerta vivipara on Scariff Island, Co. Kerry. Irish Nat. Dublin 18 1909 (26).

Kielland, Alexander. Klapperslangens klapren. [Das Klappern der Klapperschlange.] Bergen Naturen 33 1909 (190-191). Köhler, W. Zur Kenntnis der Laichform des Schlammtauchers (Pelodytes punctatus). [Nebst Bemerkungen v. P. Kammerer u. W. Wolterstorff.] Bl. Aquarienkunde Stuttgart 20 1909 (154-155 186).

Krauss, Friedrich. Ueber die interzellularen Verbindungen im Chorda-Gewebe. Erwiderung auf eine von F. K. Studnička veröffentliche Abhandlung: "Die Natur des Chorda-Gewebes". (Anat. Anz. Bd 34 Nr. 3 u. 4 1909.) Arch. mikr. Anat. Bonn 74 1909 (139–142).

Kühnová, M. vide Babák.

Kuroiwa, H[isashi]. Riukiu rettō no okahebirui. [Terrestrial snakes of Loochoo Islands.] Dobuts. Z. Tokyo 21 1909 (84-88).

[Laister, A.] Ляйстерь, А. Нахожденіе леонардоваго полоза на Кавкавь. [Coluber leopardinus im [nördlichen] Kaukasus.] Jestestv. i geogr. Moskva 14 1909 2 (67-68). 155

[Laister, A. F.] Ляйстеръ, А. Ф. Новыя данныя по герпетологіи Терской Области. I-IV. [Ucber einige neue herpetologische Funde im Terek-Gebiet.] Tiflis Mitt. Kaukas. Mus. 4 1909 (269-213 + deutsch 214-217). 156

Laister vide etiam Loister.

Lampert, Kurt. Ueber einen Fund der Sumpfschildkröte in Württemberg. Stuttgart Jahreshefte Ver. Natk. 65 1909 (270-274). 157

Lane, H. H. Alligator mississippiensis in Oklahoma. Science New York N.Y. 30 1909 (923-924). 158

Laqueur, Ernst. Ueber Teilbildungen aus dem Froschei und ihre Postgeneration. Arch. EntwMech. Leipzig 28 1909 (327-367) 3 Taf. 159

Laveran, A. et Pettit, A. Sur une hémogrégarine de Pituophis melano-leucas. Paris C. R. Acad. sci. 149 1909 (94-97).

Laveran, A. et Pettit, A. Sur une hémogrégarine du *Python sebai*. Paris C. R. Acad. sei. 148 1909 (1142-1146).

Laveran, A. et Pettit, A. Sur le rôle de Hyalomma ægyptirum dans la transmission de Hæmogregarina mauritanica. Paris C. R. ass. franç. avanc. sci. (Lille) 1909 (135).

Laveran, A. et Pettit, A. Contribution à l'étude des hémogrégarines de Lacerta ocellata Daud. Paris Bul. soc. path. exot. 2 1909 (295-298). 163

Laveran, A. et Pettit, A. Contribution à l'étude des hémogrégarines de Clemmys leprosa et de Chelodina longicollis. Paris Bull. soc. path. exot. 2 1909 (377-380).

Laveran, A. et Pettit, A. Contribution à l'étude des hémogrégarines de quelques sauriens d'Afrique. Nouveau procedé de recherche des kystes de multiplication des hémogrégarines. Paris Bul. soc. path. exot. 2 1909 (506-514).

Laveran et Salimbeni. Sur une hémogrégarine de Tupinambis teguixin, L. Paris C. R. Acad. sci. 148 1909 (132-134).

Lécaillon, A. Sur quelques faits relatifs à l'éthologie et à la physiologie des Batraciens, en particulier du triton crêté (*Triton cristatus* Laur.). Bul. inst. psych. internat. Paris 8 1908 (142-144). Discussion: MM. Perrier, Pieron.

Le Cerf, F. Sur la mue de Trogonophis wiegmanni Kæng. Ann. ass. nat. Levallois-Perret 14 1909 (33-34). 168

Léger, M. vide Mathis, C.

Lehrs, Philipp. Studien über Abstammung und Ausbreitung in den Formenkreisen der Gattung Lacerta und ihrer Verwandten. Zool. Jahrb. Jena Abt. f. Syst. 28 1909 (81-120) 1 Taf. 169

[Leister, А.] Ляйстеръ, А. Къвопросу о географическомъ распространеніи Vipera renardi Christoph. и Vipera berus L. въ предълахъ Кавказа. [Zur Frage über die geographische Verbreitung von Vipera renardi Christoph. und Vipera berus L. im Bereiche des Kaukasus.] Charikov Trav. Soc. nat. 42 1907–1908 [1909] (65–69).

Leister vide etiam Laister.

Lesage, J. Adaptation sexuelle ostéologique chez Leptodactylus ocellatus. Paris C. R. soc. biol. 65 1908 (463-464).

Lesage, J. et Solanet, E. Sur les caractères et la fréquence de Haemo-

gregarina leptodactyli dans le sang des grenouilles de l'Argentine. Paris C. R. soc. biol. 65 1908 (295-296). 171

Lindsay-Johnson. Ein Versuch zur Klassifizierung der Säugetiere, Reptilien und Amphibien in Familien und Ordnurgen nach den ophthalmoskopischen Erscheinungen des Augenhintergrundes und dem während des Lebens auftretenden Grade der Exophorie. Berlin SitzBer. Ges. natf. Freunde 1909 (249–265) 3 Taf.

Loeper, H. U. v. Beobachtungen über die Reptilien- und Amphibienfauna Hinterpommerns. Bl. Aquarienkunde Stuttgart 20 1909 (655-657).

Loomis, F. B. Turtles from the Upper Harrison beds. Amer. J. Sci. New Haven Conn. Ser. 4 28 1909 (17-26).

Loyez, Mile Marie. Sur la formation de la graisse dans l'oocyte d'un Saurien Tejus monitor Merr. Paris C. R. soc. biol. 66 1909 (225–227).

Lühe, Max. Sumpfschildkröte in Ostpreussen. Königsberg Schr. physik. Ges. 49 (1908) 1909 (386-387). 176

Lühe, M. Die Kreuzotter auf der kurischen Nchrung und die Verschleppung von Tieren durch pflanzliche Materialien. Königsberg Schr. physik. Ges. 50 1909 (54-55).

Manceaux, L. Hémogrégarines de Zamenis hippocrepis et Zamenis algirus. Arch. Inst. Pasteur Tunis 3 1908 (186-189). 178

Marchesini, Rinaldo. Sulla natura e sulla funzione dei eromatofori della Rana. Roma Boll. Soc. zool. ital. 10 1909 (286–299) 1 tav. 179

Marcucci, Ermete. Della inserzione mediale del muscolo gran pettorale in alcuni Sauri. Archivio zoologico Napoli 3 fasc. 4 1909 (445-451) 1 tav.

Marcus, Harry. Beiträge zur Kenntnis der Gymnophionen. III. Zur Entwicklungsgeschichte des Kopfes. Tl 1. Morph. Jahrb. Leipzig 40 1909 (105-183) 3 Taf.

Massaglia. Sur les moyens naturels de défense de certains Vertébrés à sang froid contre le Trypanosome du Surra (*Trypanosoma evansi*). Paris C. R. Acad. sci. **149** 1909 (516-518). **182**

Mathis, C. et Léger, M. Sur un nouveau trypanosome des Serpents du Tonkin. Paris C. R. soc. biol. 67 1909 (572-574).

McClendon, I. F. Cytological and chemical studies of centrifuged frog eggs. Arch. EntwMech. Leipzig 27 1909 (247-257) 2 Taf. 184

Meade-Waldo, G. Description of a new species of toad from Sumatra. London Proc. Zool. Soc. 1908 1909 (786-788) pl. xli.

Méhely, Lajos. Materialien zu einer Systematik und Phylogenie der muralisähnlichen Lacerten. Ann. Hist.-Nat. Mus. Nat. Hung. Budapest 7 1909 (409-621) Taf. x-xxv. 186

Melsheimer, M. Zur Entwicklung des Feuersalamanders, Salamandra maculosa Laur. Münster Jahresber ProvVer. Wiss. 37 (1908-09) 1909 (37-38). 187

Melsheimer, M. Zum Biss der Kreuzotter, Pelias berus (L.). Münster Jahresber. ProvVer. Wiss. 37 (1908–09) 1909 (38–39).

Michailow, Scrgius. Das intracardiale Nervensystem des Frosches und die Methode von Ramon y Cajal. Intern. Monatschr. Anat. Leipzig 25 1908 (351-372) 1 Taf.

Mietens, Harald. Entstehung des Blutes bei Bufo vulgaris. Jenaische Zs. Natw. 45 1909 (299–324). 190

Miller, Newton. The American toad (Bufo lentiginosus americanus, Le Conte). A study in dynamic biology. Amer. Nat. New York N.Y. 43 1909 (641-668 730-745).

Mocquard, F. Descriptions de quelques Reptilès et d'un Batracien nouveaux de la collection du Muséum. Bul. Muséum Paris 1908 (259–262). 192

Möller, Friedrich v. Urogenitalverbindung bei Emys lutaria und Lacerta agilis. Nachtrag. Zool. Anz. Leipzig 34 1909 (769-770).

Moitié. Pronéphros chez les Batraciens. Paris C. R. Ass. franç. avanc. sci. (Résumés) Lille 1909 (125). 194

Moodie, Roy L. The morphology of the vertebrate sacral rib. Anat. Anz. Jena 34 1909 (361-364). 195

Moodie, R. L. The Microsauria. ancestors of the Reptilia. Geol. Mag. London 6 1909 (216-220). 196

Moodie, R. L. New or little known forms of Carboniferous Amphibia in the American museum of natural history. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (347-357) pls. lviii-lxv.

Moodie, R. L. Carboniferous airbreathing vertebrates of the United States national museum. Washington D.C. Smithsonian Inst. Proc. U. S. Nation. Mus. 37 No. 1696 1909 (11-28) pls. iv-x.

Moodie, R. L. A contribution to a monograph of the extinct Amphibia of North America. New forms from the Carboniforous. J. Geol. Chicago Ill. 17 1909 (38-82).

Mourgue, M. Le Psammodrome d'Edwards (Psammodromus hispanicus), son aire de dispersion dans le Sud-Est. Feuille jeunes natural. Paris 38 1908 (125-126).

Mourgue, M. Observations sur Pelobates cultripes dans Vaucluse. Feuille jeunes natural. Paris 38 1908 (163-164).

Mourgue, Marcel. Catalogue raisonné de la faune erpétologique des environs de Sainte-Cécile Serignan, Orange, Vaucluse. Feuille jeunes natural. Paris 38 1908 (178–182). 202

Mourgue, M. Notes additionnelles sur les Reptiles de Vaucluse. Feuille jeunes natural. Paris 38 1908 (215). 203

Mourgue, M. Sur la ponte du Lacerta viridis et L. ocellata. Feuilli jeunes natural. Paris 38 1908 (237). 204

Mourgue, M. Sur Coronella austriaca. Feuille jcunes natural. Paris 38 1908 (237).

Mourgue, M. Note d'un cas de tératologie sur un têtard d'Alytes obstetricans. Fcuille jeunes natural. Paris 38 1908 (237).

Mourgue, M. Les vipères du Ventoux. Feuille jeunes natural. Paris 39 1909 (70-71).

Mourgue, M. Observations sur Rombinator pachypus var. brevipes Ch. Bonap. et Blasius. Feuille jeunes natural. Paris 39 1909 (139-141). 208

Mourgue, M. Capture de Chelone imbricata en rade de Marseille. Feuille jeunes natural. Paris 39 1909 (144).

Mourgue, M. Coluber elegans. Feuille jeunes natural. Paris 39 1909 (144) 210

Mourgue, M. Variétés du Lézard des murailles. Feuille jeunes natural. Paris 39 1909 (250). 211

Mourgue, M. Phyllodactyle d'Europe aux environs de Marseille. Feuille jeunes natural. Paris 39 1909 (250). 212

Mozejko, B. Ein interessanter Fall von Anomalie der Aortenbogen bei einer Rana esculenta. Anat. Anz. Jena 34 1909 (476–477). 213

Müller, Lorenz. Vorläufige Mitteilung über ein neues Chamäleon und einen neuen Gecko aus Kamcrun. Wiesbaden Jahrb. Ver. Natk. 62 1909 (111-115).

Müller, R. Ucber die Nervenversorgung des Magendarmkanals beim Frosch durch Nervennetze. Arch. ges. Physiol. Bonn 123 1908 (387-405) 1 Taf. 215

Muratet, L. vide Sabrazès, T.

Namiye, M. Taiwan-san dokuja.
[A poisonous snake from Formosa (Trimeresurus gramineus).]
Z. Tokyo 21 1909 (266–267).
215a

Nieden, Fritz. Reptilia und Amphibia für 1904 u. 1905. [Jahresterichte.] Arch. Natg. Berlin 72 Bd 2 H. 1 1906 [1909] III (1-80 1-90 zweite u. dritte Zählung).

Nieden, F. Über westafrikanische Hylambates-Arten nebst Beschreibung einer neuen Art. Arch. Natg. Berlin 75 Bd I 1909 (361-366). 217

[Nikoliski], А. М.] Никольскій, А. М. Новый видь гадюки изъ Кавказа: Vipera kaznakovi sp. n. (Предв. сообщ) [Eine neue Vipera-Art aus dem Kaukasus: Vipera kaznakovi sp. n. (Vorläufige Mitteilung.)] Tiflis Mitt. Kauk. Mus. 4 1909 (173; deutsch.174).

[Nikolski, А. М.] Никольскій, А. М. Новые для Кавказа виды пресмыкающихся. [Novae species reptilium e Caucaso.] Tiflis Mitt. Kaukas. Mus. 4 1909 (301–306). 219

Nopesa, Franz Baron. Zur Kenntnis der fossilen Eidechsen. Wien Beitr. Pal. Geol. OestUng. 21 1908 (33-62) 1 Taf. 220

Nussbaum, A. in der Oberhaut der Daumenschwiele bei Rana jusca. baden Abt. I 39 1909 (269–306) 1 Taf.

Nussbaum, M. Zur Mechanik der Eiablage bei Rana fusca und Rana esculenta. Arch. ges. Physiol. Bonn 124 1908 (100-111). 222

Nussbaum, M. Über die Beziehungen der Keimdrüsen zu den sekundären Geschlechtscharakteren. (Bemerkungen zu J. Meisenheimer's "Experimentelle Studien zur Soma- und Geschlechts-Differenzierung".) Arch. ges. Physiol. Bonn 129 1909 (110-112).

Okajima, K. Ueber das Hyobranchialskelett von *Onychodactylus*. Anat. Anz. Jena 34 1909 (182–185). 224

Okajima, K. Untersuchungen über die Sinnesorgane von Onychodactylus. Zs. wiss. Zool. Leipzig 94 1909 (171-239) 2 Taf. 225

Osborn, Henry Fairfield. The epidermis of an iguanodont dinosaur. Science New York N.Y. 29 1909 (793-795). 226

Otto, Hugo. Schlangen am Niederrhein. Zool. Beob. Frankfurt a. M. 50 1909 (47-54). 227

Palmer, William. Description of a new species of leatherback turtle from the Miocene of Maryland. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 36 No. 1669 1909 (369-373) pl. xxxi.

Papin, L. Note sur la structure de l'amygdale pharyngienne des Crocodiliens. Paris C. R. Acad. sci. 148 1909 (62-64). 229

Paris, P. Les reptiles du centre de la France et principalement de la Côte-d'Or. Monit. horticult. Paris 31 1907 (226-227). 230

Pearless, S. H. Snakes of Badulla. Spolia Zeylan. Colombo 6 pl. xxi 1909 (54-55). 231 Pellegrin, Jacques. Description de cinq Lézards nouveaux des hauts plateaux du Pérou et de la Bolivie, appartenant au genre Liolæmus. Bul. Muséum Paris 1909 (324-329). 232

Pellegrin, J. Reptiles du Soudan récoltés par la Mission Tilho-Gaillard. Description d'une espèce nouvelle. Bul. Muséum Paris 1909 (413–415). 233

Pellegrin, J. Reptiles et Batrachiens récoltés par M. Ch. Alluaud en Egypte et au Soudan égyptien. Paris Bul. soc. zool. 34 1909 (203–205). 234

Pellegrin, J. Sur une collection de Lézards de l'Afrique occidentale. Paris Bul. soc. zool. 34 1909 (241-245). 235

Peracca, M. G. Rettili ed Anfibî. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia, Parte Scientifica, Vol. I. Milano (Hoepli) 1909 (165-180).

Pettit, A. vide Laveran, A.

Phisalix, Mme. M. Immunité naturelle des serpents contre les venins des Batraciens et en particulier contre la salamandrine. Paris C. R. Acad. sci. 148 1909 (857–860). 237

Phisalix, Mme. M. Action physiologique du venin muqueux des Batraciens et en particulier des Discoglossidae. Bul. Muséum Paris 1908 (306-310). 238

Phisalix, Mme. M. Immunité naturelle des serpents contre les venins des Batraciens et en particulier contre la Salamandre. Bul. muséum Paris 1909 (132-136).

Phisalix, Mme. M. et Dehaut, G. Action physiologique du venin muqueux d'un Batracien, le Discoglossus pictus. Bul. Muséum Paris 1908 (302-304). 240

Phisalix, Mme. M. et Dehaut, G. Action physiologique du venin muqueux d'un Batracien anoure le Pelobates fuscus. Paris C. R. soc. biol. 67 1909 (285-287).

Plimmer, H. G. Exhibition of the stomach of a Boa suffering from gastritis, and of the stomach and intestines of a Cobra suffering from gastroenteritis. London Proc. Zool. Soc. 1909 (1).

Policard, A. Notes histophysiologiques sur la cellule hépatique. I. Les formations filamenteuses de la cellule hépatique de la Grenouille, Modifications pendant la digestion. Paris C. R. soc. biol. 66 1909 (352-352).

Police, Gesualdo. Caso di melanismo in una Vipera nel mezzogiorno d'Italia. Napoli Annuario Museo zool. n. s. 3 N. 6 1909 (1-3).

Police, Gesualdo. Di un caso di morte per il morso di una vipera melanica [Vipera berus] nelle province napoletanc. Napoli Boll. Soc. nat. 22 (1908) 1909 (110–118). 244

Poll, Heinrich. Mischlinge von Triton cristatus Laur. und Triton vulgaris L. Biol. Centralbl. Leipzig 29 1909 (30-31). 245

Prestele. Ueber Befruchtungsdauer bei den Tritonen. Bl. Aquarienkunde Stuttgart 20 1909 (507-509).

Rabaud, Et. A propos d'un têtard monstrueux d'Alytes obstetricans. Feuille jeunes natural. Paris 38 1908 (258-259). 247

Regaud, Cl. Participation du chondrosome à la formation des grains de segrégation dans les cellules des tubes contournés du rein (chez les Ophidiens et les Amphibiens). Paris C. R. soc. biol. 66 1909 (1034–1036). 248

[Riabinin, A.] Рябинин, А. Два Плезіозавра изъ юры и міла Европейской Россіи. [Zwei Plesiosaurier aus den Jura- und Kreideablagerungen Russlands.] St. Peterburg Mém. com. géolog. N. Ser. 43 1909 (1-36 + deutsch 37-49) 5 Таf. 249

Robertson, Muriel. Haematozoa from some Ceylon reptiles. Rep. Brit. Ass. London 1908 1909 (743-744).

Rollinat, Raymond. Note sur deux Serpents albinos. Paris Mém. soc. zool. 22 1909 (143-145). 251

Rooy, Nelly de. Reptilien (Eidechsen, Schildkröten und Krokodile). Nova Guinea, Résultats de l'Expédition scientifique néerlandaise à la Nouvelle-Guinée en 1903 sous les auspices de Arthur Wichmann. Leide (E. J. Brill) 5 1909 (375-383) 2 Taf. 31 cm.

Roule, Louis. Sur les Amphibiens du genre Euproctus Géné. Paris C. R. Acad. sci. 149 1909 (1092–1094). 253 Roule, L. La variation et la spécification des Tropidonotus d'Europe. Arch. zool. Paris sér. 5 2 1909 (Notes et revues l-xvii). 254

Roux, Jean. Distribution géographique des amphibiens dans l'Archipel Indo-Australien. (C. R. Soc. hélv. Sci. nat.) Arch. Sci. phys. Genève 28 1909 (494-495); Verh. Schweiz. Natf. Ges. Aarau 92 vers 1909 Bd. 1 (223-224).

Sabrazès, J. et Muratet, L. Le sang de l'axolotl. Granulations de cytoplasma; origine nucléaire. Bordeaux Actes soc. linn. 72 1909 (407-410). 256

Sabrazės, J. et Muratet, L. Le sang de l'axolotl. Granulations du cytoplasme: origine nucléolaire. Folia haematologica Leipzig 6 1908 (171-173). 257

Salimbeni vide Laveran.

Schmacker, B. Nachtrag zu Prof. Dr. O. Boettger's Arbeit "Neue Frösche und Schlangen von den Liukiu-Inschn". (vergl. 36. Jahresbericht des Offenbacher Vercins f. Natk. 1895 pag. 101 ff.) Offenbach Ber. Ver. Natk. 43-50 (1901-1909) 1909 (237-238).

[Schmalhausen, I. I.] Шмальгаувенъ, И. И. Раввитіе скелета конечностей Salamandrella keyserlingii. [Ueber die Entwicklung der Skeletts der Extremitäten von Salamandrella keyserlingii.] Moskva Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910 [Prot.] 1910 (289–290). 259

Schmalz, P. Eine weisse Kaulquappe. Bl. Aquarienkunde Stuttgart 20 1909 (464). 260

Schmidt, Wilhelm J. Beiträge zur Kenntnis der Parietalorgane der Saurier. Zs. wiss. Zool. Leipzig 92 1909 (359-426) 1 Taf. 261

Schreitmüller, Wilhelm. Beobachtungen über den Kampf zwischen Kreuzotter und Igel. Bl. Aquarien-kunde Stuttgart 20 1909 (772-774 789-791).

Schreitmüller, W. Einiges über Ansiedlungsversuche in der Dresdener Umgebung mit Salamandra atra Laurenti (Mohren- oder Alpensalamander). Bl. Aquarienkunde Stuttgart 20 1909 (385-386), 263

Schreitmüller, W. Einiges über Liebesspiele und Begattung von Triton torosus Eschscholz . . . Wochenschr. Aquarienk. Braunschweig 6 1909 Beilage Lacerta (102-104). 264

Schuberg, A. Ueber das Vorkommen von Zellverbindungen in der Haut von Ichthyopsis glutinosus (L.). Zool. Anz. Leipzig 34 1909 (33-35). 265

Schwarz, Hugo. Ueber die Wirbelsäule und die Rippen holospondyler Stegocephalen (*Lepospondyli* Zitt.). Wien Beitr. Pal. Geol. OestUng. 21 1908 (63–105).

Schweizer, R. Die Reptilien- und Amphibienfauna Basels. Wochenschr. Aquarienk. Braunschweig 6 1909 Beilage Lacerta (76 78-79). 267

Schweizerbarth, Elise M. v. Der rotfleckige Feuersalamander (Salamandra maculosa Laur. var. coccinea). Bl. Aquarienkunde Stuttgart 20 1909 (382–385) 1 Taf. 268

Seeley, H. G. On a fossil reptile with a trunk from the Upper Karroo rocks of Cape Colony. Rep. Brit. Ass. London 1908 1909 (713). 269

Seeley, H. G. On distinctions in dentition between the fossil reptiles classed as Cynodontia and Gomphodontia. Rep. Brit. Ass. London 1908 1909 (714).

Seidelin vide Hérelles, F. d'.

. Siebenrock, F. Synopsis der rezenten Schildkröten, mit Berücksichtigung der in historischer Zeit ausgestorbenen Arten. Zool. Jahrb. Jena Suupl. 10 1909 (427-618).

Siebenrock, F. Ueber die Berechtiging der Selbständigkeit von Sternothaerus nigricans seychellensis Siebenr. Zool. Anz. Leipzig 34 1909 (359-362).

Siebenrock, F. Homopus bergeri Ldh., eine Testudo-Art aus der Geometrica-Gruppe. Zool. Anz. Leipzig 34 1909 (623–625). 272

774 Sieglbauer, Felix. Zur Anatomie 262 Aer Schildkrötenextremität. Arch. Anat. Physiol. Leipzig Anat. Abt. 1909 (183–280) 4 Taf. 273

Snessarew, Paul. Ueber die Nervenfasern des Rhinencephalon beim Frosche. J. Psychol. Leipzig 31 1908 (97-125) 5 Taf. 274

Söderberg, Rudolf. Berättelse öfver en resa genom Skäne i zoologiskt syfte under maj och juni månader 1907 [spec. för studium af groddjurens förekomst.] [Account of a zoological journey in Scania during May and Junc, 1907, esp. for studying the occurrence of the Batrachians.] Stockholm Vet.-Ak. Årsbok 1908 (247-278). 275

Solanet, E. vide Lesage, J.

Sordelli, Ferdinando. Note su alcuni Vertebrati del Musco civico di Milano: Descrizione di due Tartarughe gigantesche. Milano Atti Socital. sc. nat. 47 1909 (280–299). 276

Spemann, H. Neue Versuche am Würzbeltierauge. physik. Ges. 1908 [1909] (75-77). 277

Stadelmann, Heinrich. Sonnenstrahlungsversuche am Chamäleon. Arch. ges. Physiol. Bonn 129 1909 (89-98). 278

Steck, Leo. Der Stimmapparat des Hemidactylus garnoti Dum. et Bibr. Ein Beitrag zur Anatomie der Geckotiden. (Reise von Dr. Walter Volz.) Bern Phil. Diss. 1907-08 (ii + 26 S.) 2 Taf. 279

Steineger, Leonhard. Batrachians and Reptiles [of the Princeton University expeditions to Patagonia, 1896-1899]. Rep. Princeton Univ. Exp. Patagonia 1896-1899. Princeton N. J. 3 (Zoology) 1909 (211-224). 280

Steineger, L. Description of a new snake from Panama. Washington D.C. Smithsonian Inst. U. S. Nation. Mus. Proc. 36 No. 1681 1909 (457-458). 281

Steineger, L. Generic names of some Chelyid turtles. Washington D.C. Proc. Biol. Soc. 22 1909 (125-127). 282

Sternfeld. Die Schlangen Kameruns. (Die Fauna der deutschen Kolonien, hrsg. vom Zool. Museum Berlin. Reihe I. Heft 1.) Berlin (R. Friedländer & S. in Komm.) 1909 (iv + 28) 1 Karte. 23 cm. 283

Sternfeld. Die Schlangen Togos.
(Die Fauna der deutschen Kolonien, hrsg. vom Zool. Museum Berlin. Reihe II. Heft 1.) Berlin (R. Friedländer & S. in Komm.) 1909 (iv + 29) 1 Karte. 23 cm. 284

Söderberg, Rudolf. Berättelse öfver X Sternfeld, Richard. Reptilia und Amphibia für 1906. [Jahresbericht.] arch. Natg. Berlin 73 Bd 2 H. 1 1907 pec. för studium af groddjurens före-

Strecker, John K. jun. vide Hurter, Julius.

Studnička, F. K. Zu der "Erwiderung" von Friedrich Krauss auf meine Mitteilung über des Chordagewebes." Anat. Anz. Jena 34 1909 (580–582).

Studnička, F. K. Die Natur des Chordagewebes. Bemerkungen zu einer Arbeit von Friedrich Krauss (Archiv für mikroskopische Anatomie, Bd. 73). Anat. Anz. Jena 34 1909 (81– 91). 287

[Šugurov, А. М.] Шугуровъ, А. М. Матеріалы для герпетологіи Кавказа: Жерлянка (Bombina bombina L.) въ кавказской герпетофаунъ. [Beitrag zur Kenntnis des Herpetologie des Kaukasus: Bombina bombina L. zur kaukasischen Fauna gehörig.] Tiflis Mitt. Kauk. Mus. 4 1909 (153–154; deutsch 155–156).

Tarapani, Helena. Zur Entwickelungsgeschichte des Hyobranchialskelettes von Salamandra atra Laur. und Triton alpestris Laur. Jenaische Zs. Natw. 45 1909 (57-110) 6 Taf. 289

Tarapani, H. Zur Entwickelungsgeschichte des Hyobranchialskelettes von Salamandra atra Laur. und Triton alpestris Laur. Zürich Phil. Diss. II. S. Jena 1909. S.-A. aus Jena Z. für Naturwissenschaft. 45 N. F. 38 (2 + 54) 6 Taf. 22 cm. 290

Terni, Tullio. Sulla presenza di ovociti nell'interiore di un'ampolla testicolare di Spelerpes (Geotriton) fuscus. Monitore zool. ital. Firenze 20 1909 (296-299). 291

Tornier, G. Reptilia, Reptilien.

— Amphibia, Lurche. [In: Die Süsswasserfauna Deutschlands, hrsg. v. Brauer. H. l.] Jena (G. Fischer) 1909 (64-65 66-89).

Tornier, G. Wie war der Diplodocus carnegii wirklich gebaut? Berlin SitzBer. Ges. natf. Freunde 1909 (193–209) 1 Taf.

Trinci, Giulio. Sulla esistenza di un paraganglio cardiaco e di un paraganglio carotico (glandula carotica) nei Rettili. Monitore zool. ital. Firenze 20 1909 (286–290). 294

Turner, C. H. The behavior of a snake. Science New York N.Y. 30 1909 (563-564). 295

Unthank, H. W. Exhibition of, and remarks upon, a skull of Sphenodon with abnormal nasal region. London Proc. Zool. Soc. 1909 (666). 296

Ussoff, S. A. Stomadaeum-Ektochorda (das vordere Ende der Chorda). Vergleichend-embryologische Studien des axialen Skelettes.) [III. Holoblastii. Amphibia.] Anat. Anz. Jena 35 1909 (168–176).

Vaillant, Léon. Observations faites, au Muséum d'Histoire naturelle, sur de jeunes crapauds communs à la période ultime de la métamorphose (V° période de Dugès). Paris C. R. soc. biol. 65 1908 (11-12).

Versluys, J. Ein grosses Parasphenoid bei *Dermochelys coriacea* Linn. Zool. Jahrb. Jena Abt. f. Anat. 28 1909 (283-294).

Versluys, J. Die Salamander und die ursprünglichsten vierbeinigen Landwirbeltiere. Natw. Wochenschr. Jena 24 1909 (33-42) 299a

Victoroff, Konstantin. Zur Kenntnis der Veränderungen des Fettgewebes beim Frosche während des Winterschlafes. Arch. ges. Physiol. Bonn 125 1908 (230-236).

Viguier, G. La structure du corps thyrofde du Gecko (*Tarentola mauri*tanica L.). Paris C. R. soc. biol. 66 1909 (1064-1065). 301

Viguier, S. Recherches sur le corps thyroïde de Gecko (Tarentola mauritanica L.). Bibliogr. anat. Nancy 19 1909 (92-97).

[Viktorov, Konstantin.] Викторовъ, Константинъ. Объ измѣненіяхъ жировой ткани лягушки во время зимней спячки. [Ueber die Veränderungen des Fettgewebes beim Frosche während des Winterschlafes.] Kazanī Zap. veterin. Inst. 26 1909 (143–149).

Vitali, Giovanni. L'articolazione mandibolare negli Anfibi, nei Rettili e negli Uccelli. Note anatomoembriologiche. Anat. Anz. Jena 34 1909 (207-224). Vogt, W. Ueber rückschreitende Veränderungen von Kernen und Zellen junger Entwicklungsstadien von *Triton* cristatus. (Vorl. Mitt.) Marburg SitzBer. Ges. Natw. 1909 1910 (109– 124) 1 Taf. 305

Wall, F. Remarks on some little known Indian Ophidia. Rec. Ind. Mus. Calcutta 3 1909 (145-150). 306

Wall, F. Remarks on some forms of Dipsadomorphus. Rec. Ind. Mus. Calcutta 3 1909 (151-155). 307

Wall, F. A popular treatise on the common Indian snakes. Bombay J. Nat. Hist. Soc. 19 1909 (87–106). 308

Wall, F. A new colour variety of Macclelland's coral snake (Callophis macclellandi) and extension of the habitat of this species. Bombay J. Nat. Hist. Soc. 19 1909 (266).

Wall, F. Notes on two casualities from the sawscaled viper (*Echis carinata*). Bombay J. Nat. Hist. Soc. 19 1909 (266-267).

Wall, F. Remarks on snake notes in the last Journal (No. 4. Vol. XVIII). Bombay J. Nat. Hist. Soc. 19 1909 (267-269).

Wall, F. A popular treatise on the common Indian snakes. Bombay J. Nat. Hist. Soc. 19 1909 (287-298) 2 pls. 312

Wall, F. Notes on snakes from the neighbourhood of Darjeeling. Bombay J. Nat. Hist. Soc. 19 1909 (337– 357) pl. 313

Wall, F. Extension of the habitat of the common Kukri snake (Simotes arnensis). Bombay J. Nat. Hist. Soc. 19 1909 (532-533).

Wall, F. Discovery of a second specimen of the rare snake Oligodon elliotti. Bombay J. Nat. Hist. Soc. 19 1909 (533).

Watson, D. M. S. On some reptilian tracks from the Trias of Runcorn (Cheshire). London Q. J. Geol. Soc. 65 1909 (440).

Watson, D. M. S. On some reptilian remains from the Trias of Lossiemouth (Elgin). London Q. J. Geol. Soc. 65 1909 (440). 317 Watson, D. M. S. A preliminary note on two new genera of Upper Liassic Plesiosaurs. Manchester Mem. Proc. Lit. Phil. Soc. 54 1909 pt. i (1-28).

Weber, A. Etude de la torsion de l'ébauche cardiaque chez Rana esculenta. Bibliogr. anat. Nancy 18 1908 (136-141).

Weber, A. Altérations des fibres musculaires striées sous l'influence des Sarcosporidies. Paris C. R. soc. biol. 66 1909 (566-568). 319

Weiss, Robert. Studien an den Bowman'schen Drüsen des Frosches. Arch. ges. Physiol. Bonn 130 1909 (507-520) 1 Taf. 320

Werner, Franz. Reptilia exkl. Geckonidae und Scincidae. (Die Fauna Südwest-Australiens, hrsg. v. W. Michaelsen u. R. Hartmeyer. Bd 2, Lfg 16.) Jcna (G. Fischer) 1909 (251-278) 2 Taf.

Werner, F. Reptilia und Amphibia für 1903. [Jahresbericht.] Arch. Natg. Berlin 72 Bd 2 H. 1 1906 [1909] iii, (1-70 erste Zählung). 322

Werner, F. Reptilien, Batrachier und Fische von Tripolis und Barka. Zool. Jahrb. Jena Abt. f. Syst. 27 1909 (595-646) 1 Taf. 323

Werner, Franz. Neue oder seltnere Reptilien des Musée Royal d'Histoire naturelle de Belgique in Brüssel. Zool. Jahrb. Jena Abt. f. Syst. 28 1909 (263– 288). 324

Werner, F. Über neue oder seltene Reptilien des Naturhistorischen Museums in Hamburg. Hamburg Jahrb. wiss. Anst. 26 (1908) Beih. 2 1909 [1910] (205-247). 325

Werner, F. Beschreibung neuer Reptilien aus dem Kgl. Naturalienkabinett in Stuttgart. Stuttgart Jahreshefte Ver. Natk. 65 1909 (55-63). 328

Wiedemann, M. Die Spitzkopfeidechse (*Lacerta oxycephala* Dumeril u. Bibron). Bl. Aquarienkunde Stuttgart 20 1909 (733-736). 327

Wieland, G. R. Revision of the Protostegidae. Amer. J. Sci. New Haven Conn. Ser. 4 1909 (101-130). 328 (N-11091 d)

Wieland, G. R. A new armored saurian from the Niobrara. Amer. J. Sci. New Haven Conn. 1909 (250-252).

Willey, A. Miscellaneous Records: Callophis trimaculatus. Spolia Zeylan. Colombo 5 pt. 20 1908 (186). 330

Willey, A. Notes on a trip from Ambalantola to Hambegamuwa. Spolia Zeylan. Colombo 6 pl. xxi 1909 (49– 53) 1 pl. 331

Williston, S. W. New or little known Permian vertebrates. Trematops, new genus. J. Geol. Chicago Ill. 17 1909 (636-658). 332

Williston, S. W. The skull and extremities of *Diplocaulus*. Topeka Trans. Kan. Acad. Sci. 22 1909 (122–131) 6 pls. 333

Wintrebert, Paul. Essai sur le déterminisme de la métamorphose chez les Batraciens. Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° Partie 1908 (741–764).

Wintrebert, P. Sur la possibilité d'obtenir une forme intermédiaire entre l'axolotl et l'amblystome. Paris C. R. ass. franç. avanc. sci. 37 (Clermont-Ferrand) 1908 [1909] (562-573); 38 (Lille) 1909 Résumés (84).

Wintrebert, P. Sur la présence à l'état indigène en France de Discoglossus pictus Orth. Paris C. R. ass. franç. avanc. sci. 38 (Lille) 1908 Résumés (83-84). 336

Wintrebert, P. Sur l'anatomie comparée du demi-amblystome branchié, de l'axolotl et de l'amblystome. Paris C. R. ass. franç. avanc. sci. 38 (Lille) 1909 (127).

Wintrebert, P. Sur la sensibilité primitive et la conductibilité centripète anerveuse du tégument chez les larves des Batraciens. Paris C. R. ass. françavanc. sci. 38 (Lille) 1909 (127-128).

Wintrebert, P. Sur les effets bienfaisants d'un milieu radifère faiblement radioactif sur la métamorphose de Salamandra maculosa et sur la germination et la pousse du Lolium perenne. Paris C. R. ass. franç. avanc. sci. 38 (Lille) 1909 Résumés (128-129). Wintrebert, P. Sur le déterminisme de la métamorphose chez les Batraciens. X: Une demi-métamorphose expérimentale. Paris C. R. soc. biol. 65 1908 (415-417). 340

Wintrebert, P. Sur le déterminisme de la métamorphose chez les Batraciens. XI: Les caractères anatomiques du demi-amblystome à branchies. Paris C. R. soc. biol. 65 1908 (540– 551). 341

Wintrebert, P. Sur le déterminisme de la métamorphose chez les Amphibiens. XII. L'évolution du vomer et du pterygopalatin chez Amblystoma tigrinum. XIII. La disparition du palatin et la transformation du vomer chez la Salamandra maculosa Laur. Paris C. R. soc. biol. 68 1909 (178-180 300-302).

Woltersdorff, W. Ueber Polls Bastarde zwischen Triton cristatus Laur. und Triton vulgaris L. Zool. Anz. Leipzig 33 1909 (850-857); Bl. Aquarienkunde Stuttgart 20 1909 (373-379).

Wolterstorf, W. Ueber einen Albino von Salamandra maculosa Laur. (Feuersalamander.) Bl. Aquarienkunde Stuttgart 20 1909 (379–382). 344

Woodward, S. Note on a Chelonian skull from the Purbeck beds of Swanage. Dorchester Proc. Dorset Nat. Hist. F. Cl. 30 1909 (143-144). 345

Wunderer, Hans. Beiträge zur Biologie und Entwicklungsgeschichte des Alpensalamanders (Salamandra atra Laur.). Zool. Jahrb. Jena Abt. f. Syst. 28 1909 (23-80). 346

Young, Robert T. The occurrence of Bujo columbiensis east of the Rocky mountains. Philadelphia Pa. Proc. Acad. Nat. Sci. 61 1909 (298). 347

Youngman, Wm. A specimen of Rana temporaria with abnormal reproductive organs. Anat. Anz. Jena 35 1909 (301-303). 348

Yung, Emile. Variations de longueur de l'intestin chez les grenouilles. Arch. Sci. Phys. Genève (4) 21 1906 (535-536).

Zimmermann, Rud. Dié Sumpfschildkröte Emys orbicularis (L.) im Königreich Sachsen und ihr Vorkommen westlich von der Elbe überhaupt. Zool. Beob. Frankfurt a. M. 50 1909 (55-59).

Zimmermann, R. Zur Schlangenfauna von Rochlitz i. S. Wochenschr. Aquarienk. Braunschweig 6 1909 Beilage Lacerta (81-83 85-86). 351

Zschokke, F. Die Reptilien der Schweiz. Aarau Mitt. Natf. Ges. 10 1905 (xvi-xviii). 352

Zuckerhandl, E. Zur Anatomie und Morphologie der Extremitätenarterien. Wien SitzBer. Ak. Wiss. Abt III 116 1907 (459-730) 6 Taf. 353

Zugmayer, Er.ch. Beiträge zur Herpetologie von Zentral-Asien. Zool. Jahrb. Jena Abt. f. Syst. 27 1909 (480-508).

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Notes on Amphibia and Reptilia. from eastern Asia, Barbour, Proc. New Engl. Zool. Cl. 4, 1909 pp. 53-78, pl. 6-7.

Reptiles et Batraoiens récoltés par M. Ch. Alluaud en Egypte et au Soudan égyptien, Pellegrin, Paris, Bul. soczool., 34, pp. 203-205.

Rettili e Anfibî della spedizione al Ruwenzori, Peracca, Sped. Ruwenzori, Parte scientifica, Vol. 1, pp. 165-180.

Reptiles and batrachians of Matabeleland, Chubb Proc. Zool. Soc. 1909 (590-597).

Notes on some salamanders and lizards of north Georgia, ALLARD, Science 30 pp. 122-124.

REPTILIA.

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Reptiles du Soudan récoltés par la Mission Tilho-Gaillard. Description d'une espèce nouvelle, Pellegrin, Bul. Muséum, Paris, 1909 pp. 413-415. Reptilia exkl. Geckonidae und Scincidae, Werner, Die Fauna Südwest-Australiens 1909 pp. 256-278, 2 Taf.

LACERTILIA.

CHAMAELEONTIDAE.

Chamaeleon ellioti, rudis figured, BOULENGER Trans. Zool. Soc. 19 p. 244 pl. viii.—C. camerunensis sp. n., Kamerun, MÜLLER Wiesbaden Jahrb. Ver. Natk. 62 p. 103.

AMPHISBAENIDAE.

Ichthyophis glutinosus (L.), Vorkommen von Zellverbindungen in der Haut, Schuberg Zool. Anz. 34 pp. 33-35.

Troyonophis wiegmanni Koeng, la mue. LE CERF Ann. ass. nat. Levallois-Perret 14 pp. 33-34.

SCINCIDAE.

Mabuia dolloi S. Africa, polylepis Afrika, spp. n., Werner Zool. Jahrb. Syst. 28 p. 269.—M. madagascariensis sp. n. Mocquard Bul. Muséum Paris 1908 p. 260.

Lygosoma meleagris figured, Boulen-Ger Trans. Zool. Soc. 19 p. 243 pl. viii. —L. euryotis sp. n. Neu Caledonien, Werner Zool. Jahrb., Syst. 28 p. 271. —L. dubium Yokohama, buchneri Kamerun, carolinarum Carolinen, spp. n.; Werner Stuttgart Jahresh. Ver. Nattk. 65, pp. 61-63.—L. spheno piforme p. 308, productum p. 310 spp. n. Africa, Boulenger Ann. Mus. Civ. Genova 4.

Ablepharus saposhinkovi sp. n. Tianschan, Kaščenko St. Peterburg Ann. mus. zool. 14 p. 126-127.

Scelotes gardiners sp. n. Soycholles, BOULENGER Trans. Linn. Soc. 12 p.

Sepsina valhallae sp. n. Seychelles, BOULENGER Trans. Linn. Soc. 12 p.

Tribolonotus gracilis sp. n. Neu Guinea, Rooy Nova Guinea 5 p. 381.

LACERTIDAE.

Lacerta, Abstammung und Ausbreitung in den Formenkreisen, LEHRS,

Zool. Jahrb. Syst. 28 pp. 81-120, 1 Taf.—L. agilis var. n. kurtuana Asia centr. Kaščenko St. Peterburg Ann. Mus. zool. 14 p. 125-126.—L. chlorogaster sp. n. Persia, Boulenger Proc. Zool. Soc. 1908 p. 936 pl.—L. caucasica, sp. n.; saxicola Everm. subspp. n. armeniaca, bithynica, gracilis, var. n. brauneri; Méhely Ann. Hist.-Nat. Mus. Nat. Hung. 7 pp. 442-614, Taf. xiii-xxv.

Eremias, Uebersicht der asiatischen Arten, Bedriaga Przewalski, Amphibia u. Reptilia, Abth. 1, Lief. 3 pp. 500-502.

Acanthodactylus grandis sp. n. Syria, BOULENGER Nnn Mag. Nat. Hist. 4 p. 188.

ANGUIDAE.

Diploglossus resplendens sp, n. Bolivia, Barbour Proc. New Engl. Zool. Cl. p. 50, pl. 4.

IGUANIDAE.

Liolaemus alticolor sp. n. Bolivia, BARBOUR Proc. New Engl. Zool. Cl. 4 p. 51, pl. 5.—L. micropholis sp. n. Chile, Werner Zool. Jahrb. Syst. 28 p. 268.—L. hatcheri sp. n. Patagonia, Stejneger, Rep. Princeton Univ. Exp. Patagonia 1896—1899 3 (Zoology) pp. 218—219.—L. pantherinus p. 324, pulcher p. 325, mocquardi p. 326, variabilis p. 327, spp. n., varr. n. requii nevini p. 327, courtyi, bolivianus sp. n. p. 328, Pellegrin Bul. Muséum Paris 15.

Diplolæmus bibronii, distinct from darwinii Stejneger Rep. Princeton Univ. Exp. Patagonia 1896–1899 3 (Zoology) pp. 221–222.

AGAMIDAE.

Agama tarimensis sp. n. Khotan, ZUOMAYER Zool. Jahrb. Syst. 27 p. 493.

—A. aculeata mirr. redeser. p. 191 fig. pl. xix figs. 1, 2; armata, Peters; p. 190; anchietai, Boc. p. 187; atra Daud. p. 192 pls. xxii-xxiv; atricollis Sm. p. 186 pls. xxii-xxii; brachyura Boul. p. 188 pl. xix. figs. 1, 2; colonorum Daud. p. 184; hispida L. p. 188 pl. xx. figs. 3 & 4; var. distanti (hispida) Boul. p. 139 pl. xxi. figs. 1 & 3; holubi, Boo. p. 193; kirki Boul. p. 185;

mossambica p. 185; planiceps p. 184; pulchella. Вос. p. 191 Gough Ann. Transv. Mus. 1 pt. 3.

Physignathus eraduensis sp. n. W.-Austral., Werner t.c. p. 275.

Phrynocephalus stolizkai pp. 279-282 Kaschgar, forsythi Anders. pp. 282-297, Taf. iv, fig. 15; v, fig. 2, 2a-d, Chines. Turkestan, Beschreibung, cilia-ris pp. 297-302, Taf. v, fig. 1, la-b Edsin-gol, putjatai pp. 302-306, Taf. v, fig. 5, 5a-b Kuku-nor, arcellazii pp. 307-311, Taf. v, fig. 7, 7a-b Dschungarci spp. n., versicolor Strauch pp. 311-338, Taf, iv, fig. 7, 8; v, fig. 4, 6, 11; vi, fig. 3, 3a-c; ix, fig. 13 Chines. Centralasien, Beschreibung, acutirostris pp. 339-346, Taf. iii, fig. 8; vi, fig. 2, 2a-d sp. n., Ebi-nor, Kuldschn.

-koslovi Tian-Schau sp. n. pp. 346-353, Taf. vi. fig. 9, 9a-c, candivolvulus Pall. Russ. Turkestan pp. 353-370 Taf. vi, fig. 4, 4a-d, 5, 5a-b, affinis Strauch Ordos pp. 370-381, Beschreibung, blanfordi Nan-Schau pp. 381-389 Taf. vi fig. 1, 1a-c, potanini Chuar. Che, Ordos pp. 389-397 Taf. vi & fig. 7, 7a-b, guentheri Edsin-gol pp. 397-404 Taf. vi fig. 8, 8a-b, spp. n., frontalis Str. Ordos pp. 404-412 Taf. ix Fig. 7, 7a, Beschreibung, carinilabris Chuan-Che pp. 412-420 Taf. vi fig. 10, 10a-b, grum-grzimailoi Tian-Schan pp. 420-427 Taf. vi fig. 6, 6a-b, vii fig. 6 spp. n., przewalskii Strauch Ala-Schan pp. 427-438 Taf. ix fig. 14, kuscha-kewitschi Bedr. Sergiopol pp. 438-445 Taf. vii fig. 2, 2a-b, Beschreibung, vlaugalii Strauch Tibet pp. 446-495 Taf. iv fig. 3 9: v fig. 9: vii fig. 1, 1a-o, 3, 3a, 4, 4a-o, 5, 7, 7a, 8, 8a, 9, 9a-b; ix bis 8, 8a, 10, 11, 12, Beschreibung, reldae Kuku-nor p. 495-500 Taf. v fig. 10, 10a-b, sp. n., BED-RIAGA Przewalski Amphibia und Reptilia Abth 1, Lcif, 3.—P. helioscopus var. n. saposhnikovi Asia centr. p. 122, subsp. n. levis Asia centr. p. 122-123, Kaščenko St. Peterburg, Ann. mus. nat., 14.—P. erythrurus sp. n. Tibet, ZUGMAYER Zool. Jahrb. Syst. 27 p. 504.

PYGOPODIDAE.

Aprasia brevirostris sp. n. W.-Austral. Werner t.c. p. 266.

UROPELTIDAE.

Uroplatus güntheri sp. n. Mocquard Bul. muséum Paris 1908 p. 259.

GECKONIDAE.

Diplodactylus pulcher Steindachner var. n. dorsotaeniata Afrique occidentale, Pellegrin Paris Bul. soc. zool. 34 p. 242.—D. weileri sp. n. Kamerun, Müller Wieshaden Jahrb. Ver. Natk. 62 p. 113.—D. pachyurus Australien, stenurus Queensland, spp. n.; Werner Zool. Jahrb. Syst. 28 p. 267.

Hemidactylus garnoti Dum, Stimmapparat; STECK, Bern. Phil. Diss. 1907-08 Naumburga S. 1908 pp. ii + 26, 2 Taf.—H. gardineri sp. n. Seychelles BOULENGER Trans. Linn. Soc. 12 p. 296.

Goniurosaurus hainanensis redescribed and figured, BARBOUR Proc. New Engl. Zool. Cl. 4 pp. 61-62, pl. 7, f. 7.

PYTHONOMORPHA.

†Dolichosaurus longicollis, Norcsa Wien Beitr. Pal. Geol. OestUng. 21 1908 pp. 33-62.

†Adriosaurus suessi Seeley, Norcsa Wien Beitr. Pal. Geol. OestUng. 21 1908 pp. 33-62.

†Coniosaurus crassidens, NOPOSA Wien Beitr. Pal. Geol. OestUng. 21 1908 pp. 33-62.

OPHIDIA.

A popular treatise on Common Indian Snakes, Wall Bombay J. Nat. Hist. Soc. 19 No. 2, 1909 pp. 287–298, 2 pls.

Snakes, terrestrial, of Loochoo Is. (Japanese) Kuroiwa Dobuts. Z. Tokyo 21 pp. 84-88.

Die Schlangen Kameruns. Reihe I. Heft. 1 STERNFELD Berlin 1909 pp. iv + 28, mit 1 Karte.

Die Schlangen Togos. Fauna der deutschen Kolonien, Reihe II, Heft. 1 STERNFELD Berlin 1909 pp. iv + 29 1 Karte.

Турньорідае.

Typhlops oligolepis, sp. n. Nagri Valley, Darjeeling, WALL Bombay J. Nat. Hist. Soc. 19 pp. 339-340.— T. microcephalus sp. n. Madagascar, WERNER Stuttgart Jahresh. Ver. Natk. 65 p. 60.—T. lorenzi Insel bei Borneo, steinhausi Kamerun spp. n.; WERNER Hamburg Jahrb. wiss. Anst. 26 p. 209.

GLAUCONIIDAE.

Glauconia merkeri sp. n. O.-Afrika, Wenner Stuttgart Jahresh. Ver. Natk. 65 p. 61.

BOIDAE.

Python spilotes var. n. macrospila (ohne Fundort), Werner Zool. Jahrb. Syst. 28 p. 274.

COLUBRIDAE.

Anoplohydrus gen. n. (Colybridae aglyphae), aemulans sp. n. Sumatra, WERNER Hamburg Jahrb. wiss. Anst. 26 p. 214.

Liophidium gracile sp. n. MOCQUARD Bul. Muséum Paris 1908 p. 261.

Tropidonotus d'Europe variation et spécification Roule Arch. 2001. 2 Notes et revues pp. 1-xvii.—T. sauteri sp. n. Formosa, Boulenger Ann. Mag. Nat. Hist. 4 p. 495.

Pseudoxenodon stejnegeri redescribed and figured Barbour Proc. New Engl. Zool. Cl. 4 pp. 67-68, pl. 7, f. 8.

Helicops schistosus var. n. andersonii, India, WALL Rec. Ind. Mus. 3 pt. ii p. 146.

Cantonophis gen. n. near Opisthotropis, praefrontalis sp. n., China, WERNER Stuttgart Jahresh. Ven. Natk. 65 p. 57.

Streptophorus subtessellatus p. 215, oxynotus p. 216, Costarica spp. n.; Werner Hamburg Jahrb. wiss. Anst. 26 Beih. 2.

Rhabdotophis gen. n. near Pseudoxyrhopas, subcaudalis sp. n., Madagaskar; Werner Stuttgart Jahresh. Ver. Natk. 65 p. 58.

Stenorhabdium gen. n., temporale sp. n. O.-Afrika; Werner Stuttgart Jahresh. Ver. Natk. 65 pp. 59-60.

Lamprophis longicauda sp. n. loc. inc. WERNER Hamburg Jahrb. wiss. Anst. 26 p. 216.

Zamenis rhodorhachis var. n. tessellata Asia Minor, Werner Zool. Jahrb. Syst. 28 p. 277.

Coluber schmidti sp. n. Transcaucasia orient., Nikolski Tiflis Mitt. Kaukas. Mus. 4 pp. 303-306.

Herpetodryas carinatus var. n. flavopicta Ecuador, Wenner Hamburg Jahrb. wiss. Anst. 26 p. 220.

Dendrophis effrenis sp. n. Ceylon, WERNER Hamburg Jahrb. wiss. Anst. 26 p. 221.

Gastropyxis orientalis sp. n. O.-Afrika, Werner Stuttgart Jahresh. Ver. Natk. 65 p. 55.

Leptophis vertebralis sp. n. Brasilia, Werner Hamburg Jahrb. wiss. Anst. 26 p. 221.

Dromicus w-nigrum sp. n. Haiti, WERNER Hamb. Jahrb. wiss. Anst. 26 Beih. 2 p. 222.

Liophis bolivianus Bolivia p. 222, rehi Brasilia p. 223, spp. n.; WERNER Hamburg Jahrb. wiss. Anst. 26.

Rhadinaea praeornata sp. n. Brasilia, Werner Stuttgart Jahresh. Ver. Natk. 65 p. 58.—R. binotata Brasilia p. 223 frenata Paraguay p. 224, spp. n.; Werner Hamburg Jahrb. wiss. Anst. 26.

Oligodon pulcherrimus sp. n. Sumatra, WERNER Hamburg Jahrb. wiss. Anst. 26 p. 227.

Holarchus nesiotis redescribed and figured, Barbour Proc. New Engl. Zool. Cl. 4 p. 71, pl. 7, ff. 5, 6.

Oligodon melaneus, sp. n. Tindharia, Wall Bombay J. Nat. Hist. Soc. 19, No. 2 pp. 349-350 pl.

Prosymna variabilis sp. n. China. Werner Stuttgart Jahresh. Ver. Natk. 65 p. 57.

Arrhyton dolichurum sp. n. Alabama? Werner Hamburg Jahrb. wiss. Anst. 26 p. 224.

Contia schelkovnikovi sp. n., Kreis Leukoran, Nikolski Tiflis Mitt. Kaukas. Mus. 4 pp. 301-302.

Atractus bocki sp. n. Bolivia, WERNER Hamburg Jahrb. wiss. Anst. 26 p. 228.

Calamaria ornata sp. n. Sumatra, WERNER Hamburg Jahrb, wiss, Anst. 26 p. 229. Calamaria linnaei var. n. multilineata Sumatra, Werner Zool. Jahrb. Syst. 28 p. 278.

Dipsadomorphus reticulatus sp. n. O.-Afrika, Werner Stuttgart Jahresh. Ver. Natk. 65 p. 55.—D. heddomei p. 152, andamanensis p. 153, spp. n. India, Wall Rec. Ind. Mus. 3 pt. ii pp. 153-154.

Leptodira tripolitana sp. n. Tripolis, Werner Zool. Jahrb. Syst. 27 p. 619.

Oxyrhopus rhombifer var. n. inaequifasciata Paraguny p. 230, doliatus var. n. aequi-fasciata Guatemala p. 231; Werner Hamburg Jahrb. wiss. Anst. 26.

Philodryas boulengeri loc. ? p. 232, lineatus Argentinia p. 233, spp. n.; Werner Hamburg Jahrb. w. Anst. 26.

Erythrolamprus labialis Ecuador p. 237, mentalis Guatemala p. 238, spp. n.; Werner Hamburg Jahrb. w. Anst. 26 Beih. 2.

Homalocranium hoffmanni sp. n. Guatemala, Werner Hamburg Jahrb. w. Anst. 26 p. 239.

Elapops heterolepis sp. n. Moc-QUARD Bul. Muséum Paris 1908 p. 261.

Pseudcohis denisonioides sp. n. W.-Austral., Werner t.c. p. 258.

Bungarus niger sp. n. Tindharia, WALL Bombay J Nat. Hist. Soc. 19 No. 2 p. 355.

Callophis macclellandi var. n. nigriventer Kasauli, W. Himalayas, WALL Bombay J. Nat. Hist. Soc. 19 No. 1 p. 266.

Trimeresurus gramineus from Formosa, Namiye Dobuts. Z. Tokyo 21 pp. 266-267.

AMBLYCEPHALIDAE.

Leptognathus maxillaris sp. n. Mexiko, Werner Zool. Jahrb. Syst. 28 p. 270.—L. praeornata Venezuela p. 240, boliviana Bolivia p. 240, temporalis Ecuador p. 241, spp. n.; Werner Hamburg Jahrb. wiss. Anst. 26 Beih. 2.

Mesopeltis longifrenis sp. n., Panama, Stejneger, Smithsonian Inst. U. S. Nation. Mus. Proc. 36 pp. 457-458.

VIPERIDAE.

Vipera kaznakovi sp. n. Nordwest-Kaukasien, Nikoliskij Tiflis Mitt. Kaukas Mus. 4 pp. 173-174.

Atheris woosnami figured, Boulen-GER Trans. Zool. Soc. 19 p. 246 pl. ix.

Atractaspis nigra sp. n. Soudan, PELLEGRIN Bul. Muséum Paris 1909 p. 414.

ICHTHYOSAURIA.

†Ichthyosauria des russischen Portland, Phylogeny, Bogoliubov Moskva Dnevn. XII. Sjëzda russ. jest. vrač. 1909–1910g. [Prot.], 1909, pp. 143–144.

†Ichthyosaurus steleodon Oxford olay Simbirsk sp. n. Bogoliubov, Ann. géol. miner., 11, 1-3, pp. 50-61, 63-64 pl. ii f. 6-10.—I. brunsvicensis sp. n. Kreide bei Hannover, Broili Palaeontographica 55 p. 266.

†Ophthalmosaurus of. Thyreospondylus russischer Portland, Bogoliubov Moskva, Dnevn. XII. Sjëzda russ. jestvrač. 1909–1910g. [Prot.], 1909, pp. 143–144.

PLESIOSAURIA.

†Microcleidus gen. n. for Plesiosaurus homalospondylus Owen, Watson Mem. Manchester Lit. Phil. Soc. 54 pt. i p. 4.

†Sthenarosaurus gen. n. Plesiosauria, dawkinsi sp. n. Upper Lias, Whitby; WATSON Mem. Manchester Lit. Phil. Soc. 54 pt. i p. 13.

†Simolestes gen. n. near Thaumatosaurus vorax sp. n. Oxford Clay of Peterborough, Andrews Ann. Mag. Nat. Hist. 4 p. 424.

†Tricleidus gen. n. near Murænosaurus, seeleyi sp. n. Oxford Clay of Peterborough, Andrews Ann. Mag. Nat. Hist. 4 p. 418.

†Picrocleidus gen. n. for Murænosaurus beloclis Seeley, Andrews Ann. Mag. Nat. Hist. 4 p. 421.

†Cryptoclidus simbirskensis Oxford clay Simbirsk sp. n., Bogoliubov, Ann. géol. miner., 11, 1-3, pp. 45-50, 62-63, pl. ii f. 1-4.

†Peloneustes philarchus Unt. Oxford Gouv. Kostroma, Osteologie; Ria-BININ St. Peterburg Mém. com. géolog. 43, pp. 1-49 5 Taf. u. 5 Textf.

†Cimoliosaurus bernardi Ob. Kreide Gouv. Charkov, Osteologie; Rĭabinin, St. Peterburg, Mém. com. géol., 43 pp. 1-49 3 Taf. u. 5 Textf.

CROCODILIA.

†Steneosaurus leedsi, nasutus, durobrivensis, obtusidens spp. n. Oxford Clay, Peterborough, Andrews Ann. Mag. Nat. Hist. 3 p. 299.

†Stenosaurus larteti var. n. kokeni, teleosauroides sp. n. Oxford Clay von Fletton, Auer Palaeontographica 55 pp. 217-294, 5 Taf.

†Deinosuchus gen. n. hatcheri sp. n. Montana, Cretaceous, Holland Pittsburg, Ann. Carnegie Mus. 6 pp. 281-294, text fig. 1-16.

DINOSAURIA.

Skizze zu einer Systematik und Stammesgeschichte der Dinosaurier, HUENE Centralbl. Min. 1909 pp. 12-22.

†Sauropoda Lebensweise, ABEL.

†Diplodocus, DENIKER et LAFFITTE, Nature Paris 37 pp. 221-223, fig.— Diplodocus carnegii, Tornier Berlin SitzBer. Ges. natf. Freunde 1909 pp. 193-209, 1 Taf.

†Camptosaurus, osteology pp. 204-266, fig. 2-35, description and revision of spp. pp. 269-297, fig. 36-47, pl. 7-17, geographical and geological distribution pp. 297-301, fig. 1, 48, pls. vi, xx, restoration pp. 301-302, pl. xviii, xix, dispar pp. 270-276, fig. 36, 37, pls. x-xv, xviii, amplus pp. 276-278, fig. 38, pl. vii-ix, medius pp. 278-279, nanus pp. 280-285, fig. 39-42, pl. xiv, prestwichii (Hulke) pp. 285-289, fig. 43, leedsi pp. 289-290, fig. 44, valdensis pp. 291, inkeyi pp. 291-292, depressus western United States, Jurassic pp. 292-295, fig. 45-47, browni Wyoming, Jurassic pp. 292-297 pl. xiv, spp. n., Gilmore Washington Smithsonian Inst. Proc. U. S. Nation. Mus. Proc. 36 No. 1666.

†Hierosaurus gen. n., sternbergii sp. n. Kansas, Niobrara, Wieland Amer. J. Sci. 1909 pp. 250-252, ff. 1-7a.

CHELONIA.

Zur Anatomie der Schildkrötenextremität, Sieglbauer Arch. Anat. Physiol. Anat. Abt. 1909 183-280 4 Taf.

Synopsis der rezenten Schildkröten, mit Berücksichtigung der in historischer Zeit ausgestorbenen Arten, Siebenrock Zool. Jahrb. 27 Suppl. 10 pp. 427-618.

Dr. Williston on "The fossil turtles of North America," Hay, Science 29 1909 pp. 341-342.

Revision of the *Protostegidae*. With bibliography. WIELAND Amer. J. Sci. 1909, pp. 101-130, ff. 1-12.

†Protostega Cope, 1872, pp. 102-103, gigas 1872, Niobrara, p. 103, advena Hay 1908, Niobrara, p. 103, potens Hay 1908, Niobrara, p. 103, P. (Archelon) marshii Wieland (1900), Pierre Cretaceous, pp. 103, 110-111, f. 5. P. copei sp. p. Kansas, Niobrara, pp. 103, 104-110, ff. 1-4, Wieland t.c.

†Archelon Wieland, 1896. p. 103. ischyros Wieland, 1896, Pierre Cretaceous, pp. 103, 111-128, ff. 6-12, pl. ii-iv, Wieland t.c.

Batrachemys nom. n. for Rhinemys Boulenger nec Wagler; type nasuta (Schweigger), Stejneger Washington Proc. Biol. Soc., 22, p. 126.

†Psephophorus calvertensis sp. n., Maryland, Miocene, Palmer Smithsonian Inst. U. S. Nation. Mus. Proc. 36 pp. 370-372, pl. xxxi.

†Testudo arenivaga Hay described, pp. 19-21, fig. 1-4, brevisterna sp. n., Wyoming, Miocene, pp. 21-25, fig. 5-8. undabuna sp. n. Wyoming, Miocene, pp. 25-26, fig. 9, Loomis Amer. J. Sci. 28.

†Trionya hoernesi, peneckei, sophiae, siegeri, spp. n. Mittelsteiermark Tertiär, Heritsch Wien Jahrb. Geol. RehsAnst. 59 p. 378.

THEROMORPHA.

· †Cynodontia and Gomphodontia, differences in dentition, Seeley Rep. Brit. Ass. 1903 p. 714.

†Dicynodon seeleyi sp. n. Karoo, Broili N. Jahrb. Min. 1908, I, pp. 1-15, 1 Taf.

†Kannemeyeria gen. n. proboscoides sp. n. Upper Karoo of Cape Colony, SEELEY Rep. Brit. Ass. 1908 p. 713.

†Tapinocephalus alherstoni Owen, skull figured, Broom Geol. Mag. 6, p. 400.

RHYNCHOCEPHALIA.

Sphenodon, intra-oranial vascular system, DENDY Proc. R. Soc. 81 p. 290.

†Opisthias gen. n., related to Spinodon p. 35, rarus sp. n., Wyoming, Jurassic pp. 35-38, fig. 1, Gilmore Smithsonian Inst. U. S. Nation. Mus. Proc. 37.

INCERTAE SEDIS.

†Isodectes punctulatus Cope, redescribed. Moodle Smithsonian Inst. U. S. Nation. Mus. Proc. 37 pp. 11-16, pl. iv-v.

BATRACHIA.

The Scanian Batrachia: Söderberg' Stockholm Vet.-Ak. Årsbok, 1908, pp. 247-278.

ECAUDATA.

RANIDAE.

Rana guppyi, structure of the lymphhearts, BEDDARD Proc. Zool. Soc. 1908 p. 930.—R. hosii, Vorkommen auf Java; Kampen, Buitenzorg, Bulletin Dép. Agric. Indes Néerl., 25, pp. 1-2.—R. chinensis; systematischer Wert. Bolkay Állatt. Közlem. 8, pp. 53-68, Taf. viii.—R. nutti figured, Boulenger Trans. Zool. Soc. 19 p. 240 pl. viii.—R. adenopleura p. 492, sauteri p. 493 spp. n. Formosa, Boulenger Ann. Mag. Nat. Hist. 4.—R. bachtyana Asia centr. sp. n. Kaščenko, St. Peterburg Ann. mus. zool. 14 p. 129-130.—R. novae-guineae sp. n. Neu-Guinea, Kampen Nova Guinea 9, p. 37.

†Rana hauffiana sp. n. Dysodilschiefern des Randecker Maares, Fraas Stuttgart Jahreshefte Ver. Natk. 65 pp 1-7

(n-11091 d)

Phrynobatrachus krefitii sp. n. German East Africa, Boulenger Ann. Mag. Nat. Hist. 4 p. 496.

Arthroleptis xenodactylus sp. n. German East Africa, Boulenger Ann. Mag. Nat. Hist. 4 p. 496.

Sooglossus sechellensis Bttgr. figured, BOULENGER Trans. Linn. Soc. 12 p. 294 pl. 40.

Nesomantis gen. n. allied to Sooglossus, thomasseti sp. n. Seychelles, BOULENGER Trans. Linn. Soc. 12 p. 293.

Rhacophorus robustus sp. n. Formosa. Boulenger Ann. Mag. Nat. Hist. 4 p. 494.

Hylambates tessmanni sp. n. W.-Afrika, Nieden Arch. Natg., 74, I. p. 365.—H. vermiculatus sp. n. German East Africa, Boulenger Ann. Mag. Nat. H st. 4 p. 497.

Prostherapis boulengeri nom. n. for P. femoralis Barbour preoc. by P. femoralis Blgr., p. 89; BARBOUR. Washington Proc. Biol. Soc. 22.

ENGYSTOMATIDAE.

Microhyla hainanensis redescribed, BARBOUR Proc. New Engl. Zool. Cl. 4 pp. 57-58.—M. steinegeri sp. n. Formosa, BOULENGER Ann. Mag. Nat. Hist. 4 p. 494.

Xenorhina bidens sp. n. Neu-Guinea, KAMPEN Nova Guinea 9 p. 39.

Sphenophryne albopunctata sp. n. Neu-Guinea, KAMPEN Nova Guinea 9 p. 42.

Chaperina ceratophthalmus sp. n. Neu-Guinea, KAMPEN Nova Guinea 9 p. 43.

Hemisus guttatum, muscular and visceral anatomy, BEDDARD, Proc. Zool. Soc. 1908 p. 894.

CYSTIGNATHIDAE.

Phanerotis novae-guineae sp. n. Neu-Guinea Kampen Nova Guinea 9 p. 36.

Paludicola bufonina, description of tadpole, Stejneger Rep. Princeton Univ. Exp. Patagonia 1896–1899 (Zoology) p. 216.

HYLIDAE.

Hyla hayii sp. n. Brazil, BARBOUR Proc. New Eng., Zool. Cl. 4 pp. 51-52, pl. 5—H. rhacophorus, sanguinolenta spp. n. Neu-Guinea, KAMPEN Nova Guinea 9 pp. 32, 33.

BUFONIDAE.

Bufo lentiginosus americanus, habits, etc., Miller Amer. Nat. 43 p. 641.—
B. columbiensis, eastern slope of Continental Divide, Colorado, Young, Philadelphia Proc. Acad. Nat. Sci. 61 p. 298.—B. bankorensis redescribed and figured, Barbour Proc. New Engl. Zool. Cl. 4 pp. 55–56, pl. 6.—B. viridis var. n. unicolor Asia centr. (Russ. + lat. Diagn.), Kaščenko St. Peterburg Ann. mus. zool. 14 p. 128.—B. val. hallae sp. n. Sumatra, Meade-Waldo, Proc. Zool. Soc., 1908, p. 786, pl. xli.—B. chevalieri sp. n. Mocquard Bul. Muséum Paris 1908 p. 262.

DISCOGLOSSIDAE.

Discoglossus pictus Orth. présence à l'état indigène en France, Wintrebert, Paris C. R. ass. franç. avanc. sci., 38, (Lille), Résumés pp. 83-84.

Alytes obstetricans, Vererbung errwungener Fortpflanzungsanpassungen, KAMMERER Arch. Entw-Mech., 28, pp. 447-545, 2 Taf.

AGLOSSA.

Xenopus lævis, occurrence of posterior lymph-hearts, Beddard Proc. Zool. Soc. 1908 p. 924.

CAUDATA.

Triton cristatus Laur. und T. vulgaris L., Mischlinge, Poll, Biol. Centralbl. 29 pp. 30-31.—T. cristatus Laur. und T. vulgaris L. Bastarde, Woltersdorff Zool. Anz., 33, pp. 850-857; Bl. Aquarienkunde, 20, pp. 373-379.

Salaman'ira maculosa Laur. var. n. coccinea, Deutschland, Schweizerbarth Bl. Aquarienkunde 20 p. 382.

Salamandrella keyserlingii Extremitätenskelett, Schmalhausen, Moskva Dnevnik XII. Sjëzda russ. jest. vrač. 1909–1910g. [Prot.] 1910 pp. 289–290. Euproctus Géné, Roule Paris, C. R. Acad. sci., 149, pp. 1092-1094.—E. montanus, Urodèle apneumone caractéristique de la faune corse, Dehant Paris C. R. soc. biol., 67, pp. 413-414.

Onchodactylus, Sinnesorgane Okajima Zs. wiss. Zool., 94, pp. 171-239, 2 Taf.

Cryptobranchus japonicus, Anatomie der Nasenhöhle, Fleissig, Anat. Anz., 35, pp. 48-54.

LYSOROPHIDAE.

†Lysorophus tricarinatus, cranium etc., Broili Anat. Anz. 33 pp. 290–298.

APODA.

Hypogeophis, Entwicklungsgeschichtedes Kopfes. Tl 1, Marcus Morph. Jahrb. 40 pp. 105-183, 3 Taf.

Praslinia gen. n. cooperi sp. n. Seychelles, BOULENGER Trans. Linn. Soc. 12 p. 292.

STEGOCEPHALA.

Die Stegocephalen und ihre Stellung unter den Wirbeltieren, ARLDT Natw. Rdsch. 24 pp. 353-355.

†Microsauria, ancestors of the Reptilia, Moodle Geol. Mag. 6 p. 216.

†Tuditanus walcotti sp. n., Ohio Carboniferous, Moodie Smithsonian Inst. Proc. U. S. Nation. Mus. 37 No. 1696, pp. 16–19, pl. vi fig. 1–2, pl. vii.—T. minimus pp. 56–61, fig. 10, sculptilis Pennsylvania Carboniferous, pp. 61–63, figs. 11–12, spp. n., Moodie J. Geol. Chicago Ill. 17.

†Erpetosaurus gen. n. p. 348, type Tuditanus radiatus Cope p. 347, tuber-culatus pp. 348-349, pl. lviii, acutirostris pp. 349-351, pl. lxi fig. 1, spp. n. Moode New York Bull. Amer. Mus. Nat. Hist. 26.

†Macrerpeton gen. n. for Tuditanus huxleyi Cope, Moddle J. Geol. Chicago Ill. 17 pp. 72-73, fig. 17.

†Odonterpeton gen. n. Tuditanidae p. 19, genotype O. triangularis sp. n., Ohio Carboniferous pp. 19-21, pl. vi, fig. 3, MOODIE Smithsonian lnst. Proc. U. S. Nation. Mus. 37. †Eoserpcton gen. n. for Ceraterpeton tenuicorne Cope, Moodie J. Geol. Chicago Ill. 17 pp. 76–79, fig. 20.

†Stegops gen. n. for Ceraterpeton divaricatum Cope (S. divaricata), MOODIE J. Geol. Chicago Ill. 17 p. 79 fig. 21-22.

†*Ichthyerpeton squamosum* sp. n. Ohio Carboniferous, Moodie J. Geol. Chicago Ill. 17 pp. 69-72.

†Erpetosaurus minutus sp. n., Penusylvania Carboniferous, Moodle Smithsonian Inst. Proc. U. S. Nation. Mus. 37 pp. 21-23, pl. viii, fig. 1.

†Diceratosaurus punctolineatus Cope, description of second specimen, Moode Smithsonian Inst. Proc. U. S. Nation. Mus. 37 pp. 25-26.—D. laevis pp. 63-67, figs. 13-14, robustus Ohio, Carboniferous, pp. 67-69, fig. 15, spp. n., Moodie J. Geol. Chicago Ill. 17.

†Sauropleura longidentata sp. n., Carboniferous, Moodie J. Geol. Chicago Ill. 17 pp. 74-76, figs. 18-19.

†Saurerpeton gen. n. for Sauropleura latithorax Cope, Moodie J. Geol. Chicago Ill. 17 p. 80, fig. 23.

†Diplocaulus skull and extremities, WILLISTON Topeka Trans. Kan. Acad. Sci. 22 pp. 123-131, 6 pl.

†Trematrops gen. n. milleri sp. n. Texas Permian; the nearly complete osteology, with restoration of skeleton, Williston J. Geol. Chicago Ill. 17 pp. 637-658, figs. 1-6.

†Ophiderpetontidae fam. n. ex Aistopoda, Schwarz Wien Beitr. Pal. Geol. OestUng. 21 1908 pp. 63, 105,

†Dolichosoma Huxley, Wirbel u. Rippen, Schwarz t.c. p. 63.

†Micrerpeton gen. n. caudatum sp. n. Illinois Carboniferous, Moode J. Geol. Chicago Ill. 17 pp. 39-51, figs. 1-6.



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ARRANGED BY

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I.—TITLES.

Abbott, Clinton G. The Blackthroated Green Warbler (Dendroica virens) as a nesting species on Long Island, N.Y. Auk Cambridge Mass. 26 1909 (80-81).

Adam, J. C. "The Raven Wys." Edinburgh Trans. F. Nat. Soc. 6 1909 (152-163).

[Aleksandrov, L. D.] Александровъ, Л. Д. О пролетъ и высыпкахъ пупелей. [Ueber den Durchzug und das plötzliche Auftreten der Doppelschnepfen.] Ochotn. vešt. Moskva 9 1909 (355–356).

Alexander, B. [Description of a new Parrot from West Africa.] London Bull. Brit. Ornith. Cl. 23 1909 (74). 4

Alexander, B. [Description of Bradypterus camerunensis, sp. nov. from the Peak of Cameroon.] London Bull. Brit. Ornith. Cl. 25 1909 (19-20). 5

Alexander, C. J. Marsh-Warbler in Kent. Brit. Birds London 3 1909 (159– 160). 6

Alexander, C. J. & H. G. On a plan of mapping migratory birds in their nesting areas. Brit. Birds London 2 1909 (322-326); also Nature London 80 (113).

Allan, C. W. Doves nesting on the ground. Bombay J. Nat. Hist. Soc. 19 1909 (523-524).

Allen, Francis H. Breeding of the Mockingbird near Boston. Auk Cambridge Mass. 26 1909 (433-434). 9

Allen, G. M. Fauna of New England; No. 11. List of the Aves. Boston Mass. Occ. Papers Soc. Nat. Hist. $7\,1909\,(10+230)$.

Allen, Glover M. vide Townsend, Charles W.

Allen, J. A. The habitat groups of North American birds in the American museum of natural history. Auk Cambridge Mass. 26 1909 (165-174) pls. i-iv. 11

Allen, J. A. An American's views of Bird Migration. British Birds London 3 1909 (12-19).

[Alpheraki, S. N.] Алфераки, С. Н. Еще о лет'в итипъ противъ в'тра. [Nochmals über das Fliegen der Vögel gegen den Wind.] Naša ochota St. Peterburg 3 1909 12 (3-9).

Alphonsus, B. Migration of birds in St. Joseph county, Ind., from March 1 to May 30, 1909. Notre Dame Ind. Midland Naturalist 1 1909 (47-49).

American Connithologists' Union Fifteenth supplement to the American ornithologists' union check-list of North American birds. Auk Cambridge Mass. 26 1909 (294-303).

Ammann, Josef. Die Vögel der Hochalpen-Region und ihre Lebensweise. Natur u. Offenb. Münster 55 1909 (577-599).

Andersen, J. C. New Zealand birdsong. Wellington Trans. N. Zeal. Inst. 41 1909 (422-428).

Anderson, P. Bird notes from Tirce. Ann. Scot. Nat. Hist., Edinburgh 1909 (51).

Anderson, Rudolph M. Nesting of the Bohemian Waxwing (Bombyeilla garrulus). Auk Cambridge Mass. 26 1909 (10-12).

Anderson, R. M. Northward range of Ammodramus lecontei. Auk Cambridge Mass. 26 1909 (80).

Anderson, R. M. Breeding of Dendroica striata at Great Slave lake. Auk Cambridge Mass. 26 1909 (80). 21

Andreev, V. D. et Bianchi, V. Contribution à la faune ornithologique

du distriet Ustsysolsk gouv. Vologda. St. Petersburg Bull. Ae. Se. 1909 (1181) [Russian]. 22

Andreucci, A. Nuovo habitat toseano della Lycos monedula (Linn.) (ex. Gesn.). Avicula Siena 13 (1-4).

Anfrie, E. Le Puffin gris ou fuligineux. Paris Rev. Fr. d'Orn. 1 1909 (116).

[Anon.] Dr. R. Bowdler Sharpe. [Obituary notice.] Nature London 82 1909 (253-254). 25

[Anon.] Report from the select committee of the House of Lords on the importation of plumage prohibition bill together with the proceedings of the committee, minutes of evidence and appendices. (x + 47). London 1908.

Aplin, O. V. Notes on the ornithology of Oxfordshire, 1908. Zoologist London 13 1909 (321–329). 27

Aplin, O. V. Little Bittern in Oxfordshire. Zoologist London 13 1909 (468-469). 28

Arcangeli, Alceste. Osservazioni sulla eheratoialina. Pisa Atti Soc. tose. sc. nat. Pro. verb. 18 1908-09 (17-21).

Atctander, H. Iagttagelser af Stevns Fugleverden 1884-1909. [Observations on the birdlife on Stevns [Denmark] during the years 1884-1909.] Kőbenhavn Ornith. Tids. 4 1909 (1-15).

Arnold, E. C. The Eastbourne Crumbles. Zoologist London 13 1909 (64-70). 31

Arnow, Isaae F. The Masked Duck—A correction. Auk Cambridge Mass. 26 1909 (189).

Arrigoni degli Oddi, Ettore. Osservazioni sulla [discussa] comparsa di un Occhione del Senegal nel Vicentino. Roma Boll. Soc. zool. ital. 10 1909 (203-206).

Arrigoni degli Oddi, E. [Letter on the occurrence of the White-fronted Goose (Anser albifrons) in Italy. Ibis London 1909 (562-563).

Artobolewski, W. Cyanistes pleskei (Cab.)—Nistvogel im Gouvernement Kiew. Ornith. Jahrb. Hallein 20 1909 (77-78). [Artobolewski, W.] Артоболевскій, В. Phylloscopus viridanus (Blyth.) въ Пенаенскомъ утадть. [Phylloscopus viridanus (Blyth.) im Pensaschen Kreise.] Kiev Zap. Obšč. jest. 21 1909 1 (213–223, deutsch. Rés. 224–227).

Astley, H. D. On four well-known thrushes of North America. Avicult. Mag. Brighton 7 1909 (99-108). 37

Astley, H D. . The hardihood of Gardiner Bower Birds. Avicult. Mag. 7 1909 (156-158).

Astley, H. D. The Hermit Thrush (Turdus pallasi) and Wilson's Thrush (Turdus fuscescens). Avieult. Mag. Brighton 7 1909 (177-183). With eoloured plate.

Astley, H. D. A rare hybrid Australian Grassfineh (Neochmia phaëton × Bathilda ruficauda). Avicult. Mag. Brighton 7 1909 (199).

Astley, H. D. Nesting of Red eapped Parrakeets (Porphyrocephalus spurius) and a hybrid Stanley-Rosella. Avicult. Mag. Brighton 7 1909 (291–294)

Astley, H. D. Townsend's Flycateher or Solitaire (Myiadestes townsendi). Avieult. Mag. Brighton 7 1909 (319-321). 42

Astley, H. D. Nesting of the Magpie Tanager (Cissopis leveriana). Avicult. Mag. Brighton 7 1909 (323-325).

Astley, H. D. The Abyssinian Love-Bird. (Agapornis taranta). Avicult. Mag. Brighton 1 1909 (23-24). 44

Atkins, W. R. The Osmotic pressures of the blood and eggs of Birds. Dublin Sci. Proc. R. Soc. 12 1909 (123-130).

Attewell, H. E. The "Mosquito Hawk" or Jamaica Give-me-me-bit [Chordeiles virginianus minor]. Avieult. Mag. Brighton 7 1909 (96-98).

Aubert vide Simond.

Aulmann, Georg. Die Mundrachenwand der Vögel und Säuger. Morph. Jahrb. Leipzig 39 1909 (34-82) 4 Taf.

[Averin, V.] Аверинъ, В. Зимній пролеть дроздовъ - рябинниковъ,

Turdus pilaris. [Winterflug von Krammetsvögeln (Turdus pilaris).] Sborn. stud. kruž. liub. pris. Chark. Univ. Charikov 1 1909 (74–76). 48

[Averin, V.] Аверинъ, В. О появлении розоваго скворца (Pastor roseus L.) въ предъяхъ Харвковской губерніи. [Ueber das Erscheinen der Rosenstaares (Pastor roseus L.) im Gouv. Charkov.] Sborn. stud. kruž. lĭub. pris. Chark. Univ. Charikov 1 1909 (70-71). 49

B. T. R. Obituary—E. H. Aitken. Bombay J. Nat. Hist. Soc. 19 1909 (540-542). 50

Bacon, B. The Cotton-teal (Nettapus coromandelianus) in the Konkan, Western India. Bombay J. Nat. Hist. Soc. 19 1909 (264).

Baer, W. Untersuchungsergebnisse von Mageninhalten sächsischer Vögel. Ornith. Monatschr. Magdeburg 34 1909 (33-44). 52

Baer, W. Ein deutscher Würgfalke. Ornith. Monatschr. Magdeburg 84 1909 (196-198). 53

Bahr, P. H. On the supposed "colour-change" and the spring moult of the Black-headed Gull. Brit. Birds London 8 1909 (105-111) 6 text-figures.

Bailey, F. M. The Nesting of the bar-headed goose (Anser indicus) in Tibet. Bombay J. Nat. Hist. Soc. 19 1909 (367-369) pl. 55

Bailey, F. M. A nest of Archibuteo hemiptilopus (Himalayan rough-legged buzzard) from Tibet. Bombay J. Nat. Hist. Soc. 19 1909 (523) figure. 56

Bailey, Mrs. F. M. Handbook of birds of the western United States including the Great Plains, Great Basin, Pacific Slope and Lower Rio Grande valley. With 33 full-page plates by L. A. Fuertes and over 600 cuts. 3rd ed. revised. Boston and New York (Houghton Mifflin) 12mo. (xc + 514).

Bailey, H. H. Northern breeding limit of the Chuck-wills-widow. Auk Cambridge Mass. 26 1909 (306). 58

Bailey, Vernon. Birds known to eat the boll weevil. Washington D.C. U.S. Dept. Agric. Biol. Surv. Bull. No. 22 1905 (1-16) tab. 59

Baker, E. C. S. The Indian Ducks and their Allies; with 30 coloured plates, by H. Grönvold, G. E. Lodge, and J. H. Keulemans. 1 vol. (xi + 292). Bombay and London (Bombay Nat. Hist. Soc.) 1908 l. 8vo. 60

[Balabin, V. I.] Балабинъ, В. И. Къ орнитологія Донской области. Крониненть больной. [Zur Ornithologie des Don-Gebietes. Der grosse Brachvogel (Numentus arquatus L.).] Semja ochotn. Moskva 1909 (180–182).

[Balabin, V. I.] Балабинъ, В. И. Пътанка. [Die rote Brandente, Tadorna cornuta.] Semja ochotn. Moskva 1909 (194-196). 62

Bales, B. R. The status of the Amercan Barn Owl (Strix pratincola) in Pickaway country, Ohio. Wilson Bull. Oberlin Ohio 21 1909 (35-38). 63

Bales, B. R. The brown stain occasionally seen on the feathers of wild-ducks. Wilson Bull. Oberlin Ohio 21 1909 (221-223).

Baltz, Carl. Die Wachtel (*Coturnix communis*). Zs. Jagdschutzver. Berlin 14 1909 (357–359, 367–368). 65

Bamberg, Otto. Aus der ostasiatischen Mongolei. [Oologisches.] Zs. Oologie Berlin 19 1909 (33–36 b2–56).

Bamberg, Otto. Dr. Otto Ottosson. Zs. Oologie Berlin 19 1909 (59). 67

Bamberg, Otto. Über neue palaearktische Formen. Zs. Oologie Berlin 19 1909 (100-102 117-118 137-138). 68

Banfield, E. J. The confessions of a beachcomber—scences and incidents in the career of an unprofessional beachcomber in tropical Queensland. With a map and 53 illustrations. [Chapter on birds of Dunk Island, Queensland, pp. 92-128.] London (Fisher Unwin) 1908 8vo (xii + 336).

Bangs, O. Notes on some rare or not well-known Costa Rican birds. Washington D.C. Proc. Biol. Soc. 22 1909 (29–38). 70

Bangs, Outram vide Thayer, John E.

Bannerman, D. A. [Description of Muscicapa somaliensis sp. nov. and note on Sylviella gaikwari]. London Bull. Brit. Ornith. Cl. 25 1909 (20-21).

Barber-Starkey, F. Some nesting habits of the Wood-lark, as observed in North Devon. Brit. Birds London 8 1907 (7-11) 1 plate and 2 photographs.

Barber-Starkey, F. Peculiar nesting site of Mallard. Avicult. Mag. Brighton 7 1909 (243-244). 73

Barfurth, Dietrich. Experimentelle Untersuchung über die Vererbung der Hyperdactylie bei Hühnern. Mitt. 2: Der Einfluss des Vaters. Arch. EntwMech. Leipzig 27 1909 (653-661) 1 Taf. 74

Barnard, C. A. [Nests of] the Fairy Martin (Petrochelidon ariel). Emu Melbourne 9 1909 (92) pl. vi. 75

Barrington, R. M. A new British and two new Irish Birds [Locustella certhiola, Emberiza pusilla, Acrocephalus streperus.] Dublin Sci. Proc. R. Soc. 12 1909 (18-20).

Barrington, R. M. Little Gull (Larus minutus) in Co. Meath. Irish Nat. Dublin 18 1909 (99, 183).

Barthos, Gyula. Néhány adat az egerészölyv táplálkozásához. [Einigo Daten zur Nahrung des Mäusebusardes.] Aquila Budapest 15 1908 (307–308).

Batchelder, Charles Foster. The Newfoundland hairy woodpecker. Cambridge Mass. Proc. N. Engl. Zool. Cl. 4 1908 (37-38). 79

Bates, G. L. Field-notes on the birds of Southern Kamerun, West Africa. Ibis London 1909 (1-74) pls. i & ii.

Bates, G. L. [Letter on young of Parmoptila woodhousii.] Ibis London 1909 (383).

Bates, G. L. [Description of Lobotus oriolinus, sp. nov. from Kamerun.] London Bull. Brit. Ornith. Cl. 25 1909 (14-15).

Bates, G. L. [Description of Melignomon robustus. Parisoma holospodium and Pedilorhynchus brevirostris, spp. nov. from Kamerun.] London Bull. Brit. Ornith. Cl. 25 1909 (26-28). 83

Bates, G. L. [Description of the hitherto unknown male of Othyphantes batesi Sharpe.] London Bull. Brit. Ornith. Cl. 25 1909 (41).

Batschi, G. Vogelzug in Braila (Rumänien). Aquila Budapest 16 1909 (312-313).

Bau, Alexander. Neue Beobachtungen seltener Vögelarten Vorarlbergs. Ornith. Jahrb. Hallein 20 1909 (150–151). 86

Bau, Alexander. Notizen zum Brutgeschäft des Zwergfliegenschnäppers. Zs. Oologie Berlin 18 1909 (153–154).

Bauer, O. Eine grudelnde Birkhenne. Ornith. Jahrb. Hallein 20 1909 (217-218).

Bauer, O. vide Hocke, H.

Baxter, E. V. Bird notes from the Isle of May for the year 1908. Ann. Scot. Nat. Hist. Edinburgh 1909 (5-20).

Baxter, E. V. vide Rintoul.

Beauchamp, P. de. [Sur une inclusion dans un œuf de poule.] Paris Bul. soc. zool. 34 1909 (20-21). 90

Beaufort, L. F. dc. Twee vogelverzamelingen van Sumatra. [Zwei Vogelsammlungen von Sumatra.] Amsterdam Versl. Mcd. Ned. Ornith. Ver. 6 1909 (8–15).

Beaufort, L. F. de. Birds from Dutch New Guinea. Nova Guinea. Résultats de l'Expédition scientifique néerlandaise à la Nouvelle-Guinée en 1903, sous les auspices de Arthur Wichmann. Leide (E. J. Brill) 5 1909 (389-420) 31 cm. 92

Beauquesne, Baron de. Rencontres fortuites.—La marèque du Chili [Mareca sibilatrix]. Paris Rev. Fr. d'Orn. 1 1909 (75-76).

Beaux, O. de. Die kurzschnäbelige Gans (Anser brachyrhynchus Baill.) in Italien. Ornith. Monatsber. Berlin 17 1909 (53–56).

Beaux, Oscar de. Keine Anser brachyrhynchus in Italien. Ornith. Monatsber. Berlin 17 1909 (85-87).

Bedford, Duchess of. Some autumn bird notes from the Outer Hebrides. Ann. Scot. Nat. Hist. Edinburgh 1909 (3-5).

Bedford, Duchess of. Nesting results at Woburn. Avicult. Mag. Brighton 1 1909 (36-37). 97

Bedford, Duehess of. The bill of the Great Northern Diver. Brit. Birds London 2 1909 (387). 98

Bedford, Duehess of. The longevity of birds. Brit. Birds London 3 1909 (78-79 115-117).

Beebee, C. W. Ecology of the Hoatzin [Opisthocomus cristatus]. New York Zoologiea 1 1909 (45-66) figs. 11-19.

Beebee, C. W. An ornithological reconnaissance of northeastern Venezuela. New York, Zoologica 1 1909 (67-114) figs. 21-37.

Beebe, C. William. Rare birds in the New York zoological park. Science New York N.Y. 30 1909 (668-669).

Beeston, T. J. The birds of the Stour valley. Woreester Trans. Nat. Cl. 4 1909 (114-117). 103

Begbie, Arundel. The injury-feigning habits of parent birds. Bombay J. Nat. Hist. Soc. 19 1909 (531-532). 104

Behm, Alarik. Fortpflanzung des Kolkraben (Corrus corax L.), der Habiehtseule (Syrnium uralense (Pall.),) und des Uhus (Bubo bubo (L.)) in der Gefangenschaft. Zool. Beob. Frankfurt a. M. 50 1909 (225–239).

Begs, Karl. [4 Bruten bei *Turdus merula*.] Zs. Oologie Berlin 19 1909 (94-95). 106

Behrens, K. Beiträge zur Vogelfauna von Bielefeld und Umgegend. Bonn SitzBer. Ges. Natk. 1908 1909 Bot.zool. Ver. (50-65).

[Běliajev, V. G.] Бѣляевъ, В. Г. Наблюденіе за ростомъ молодыхъ гусей при пользованіи ими исключительно подножнаго корма. [Beobachtungen über das Wachstum junger Gänse, welche sieh aussehlieslich von Grasfutter nähren.] Ptiecvodn. choz. Moskva 11 1909 (242–244).

Belogolowy, J. Zur Entwickelung der Kopfnerven der Vögel. Ein Beitrag zur Morphologie des Nervensystems der Wirbeltiere. Moskva Bull. Soc. Nat. 1908 1909 (177-537) 9 Taf.

Bénard, C. Dans l'océan glacial et en Nouvelle-Zemble. Paris (Michel) (192; avifaune 150-152) [1909] 8vo. Bennett, F. M. A tragedy of migration [in the Florida Keys]. Bird-Lore Harrisburg Pa. 11 1909 (110-113).

Bennett, R. A method of mounting Birds' Eggs. London Mus. J. 8 1909 (299-301).

Benson, C. W. Some Swiss birds observed at the Rhone Glacier, Kleine Scheidegg, and Macolin, Jura Bernoise, in 1909. Zoologist London 13 1909 (393-396).

Bent, A. C. A bird photographer's outfit. Bird-Lore Harrisburg Pa. 11 1909 (101-107) 3 figs. 114

Berger, A. In Afrikas Wildkammern als Forscher und Jäger. Berlin (P. Parey) 1910 [1909] (xvi + 431 mit 40 Taf. u. 1 Karte). 25 cm. Geb. 14 M.

Bergtold, W. H. The Little White Egret (Egretta candidissima) in New Mexico. Auk Cambridge Mass. 26 1909 (76).

Bergtold, W. H. Mexican Goldfinch (Astragalinus psaltria mexicanus) in Colorado. Auk Cambridge Mass. 26 1909 (79).

Bergtold, W. H. Albino robins. Auk Cambridge Mass. **26** 1909 (196–198). **118**

Berlepsch, Hans Graf von. Ueber eine neue Gattung [Snethlagea] aus der Famille der Tyrannidae. J. Ornith. Leipzig 57 1909 (104-107).

Berlepsch, Hans Freiherr von.
Jahresnotizen der Versuchs- und
Musterstation für Vogelsehutz auf
Schlossgut Seebach, Kreis Langensalza.
Ornith. Monatschr. Magdeburg 34
1909 (266–270). 120

Berry, C. The birds of Lendalfoot. Glasgow Nat. 1 1909 (5-23). 121

Berry, C. Jottings from my notebook. Glasgow Nat. 1 1909 (35-38).

Berry, W. Gadwall in Fifeshire. Ann. Scot. Nat. Hist. 1909 (49, 116). 123

Bertram, C. vide Parrot, Carl.

Bessere, Freiherr L. von. Ueber das Brüten des Krammetsvogels in Bayern. D. Jäger München 31 1909 (298-300). Besserer, L. Freiherr von. Einiges vom Vogelzug. D. Jäger Münehen 31 1909 (345-346).

Besserer, Freiherr v. Ornithologische Beobaehtungen aus Ägypten. Münehen Verh. ornith. Gcs. 9 (1908) 1909 (53-67).

Betham, R. M. The nesting of the Brahminy Duck (Casarca rutila). Bombay J. Nat. Hist. Soc. 19 1909 (751-752).

Betts, Norman de W. Brown Creepers nesting near St. Louis. Auk Cambridge Mass. 26 1909 (434-435).

Bezier, T. Sur un Tiehodrome échelette, *Tichodroma muraria* Lin., eapturé en Ille-et-Vilaine. Renncs Bul. soc. sei. méd. 17 1908 (86–88). 129

Bezier, T. Quelques remarques sur l'Émeu de la Nouvelle Hollande, à propos d'un sujet ç offert au Musée de Rennes par M. Ch. Jallot, Ingénieur agronome, propriétaire à Beaulieu, (Mayenne.) Rennes Bul. soe. sei. méd. 17 1908 (91-94).

[Bianchi, V.] Біанки, В. Наставленія для собиранія Зоологическихъ Коллекцій V. Инструкція для собиранія итиць, ихъ янцъ и гивадъ. [Anleitungen zum Sammeln zoologiseher Objekte V. Anweisung zum Sammeln der Vögel, ihrer Eier und ihrer Nester.] Herausgeg- vom Zoologisehen Museum der Kais. Akademie der Wissensehaften. St. Peterburg 1909 (i + 44 + 2). 25 em. 131

[Bianchi, V.] Біанки, В. Отчеть о Коммандировкі въ Камчатку въ 1908 году. [Rapport sui une mission scientifique à la Kamstehatka en 1908.] St. Peterburg Bull. Ae. Sc. N. Ser. 1909 (23–52).

[Bianchi, V.] Біанкп, В. Краткій обзоръ авифауны Командорскихъ острововъ. [Арегси de la faune ornithologique des Hes Comandores.] St. Peterburg Ann. Mus. zool. 14 1909 (48-76).

[Bianchi, V.] Біанки, В. Замѣтки по орпитологической поменклатурѣ. І. Къ вопросу о правпльномъ латинскомъ родовомъ названіи гагаръ, Urinator Lacépède, 1799. [Aperçu sur la nomenelature ornithologique. I. Sur le nom générique des plongeons, Urinator Lacépède, 1799.] St. Peter-

burg Ann. Mus. zool. 14 1909 (136–139).

[Bianchi, V.] Біапки, В. Списокъ птицъ, собранныхъ Д. К. Глазуновымъ въ С. Петербургской губерніи и хранящихся въ Зоологическомъ Кабинетъ Императорскаго С.-Петербургскаго Университета. [Liste des oiseaux reeeuillis par D. K. Glasunow dans le gouvernement de St. Pétersbourg et conservés au Cabinet Zoologique de l'Université Impériale de St. Pétersbourg.] St. Peterburg Ann. Mus. zool. 14 1909 (169–179).

[Bianchi, V.] Біанки, В. Къ авифаунт устья р. Оби и прилъжащій части полуострова Тамалъ. [Quelques contributions à la faune ornithologique de l'embouchure du fleuve Ob et de la partie adjacente de la péninsule Tamal, Sibérie occidentale.] St. Peterburg Ann. Mus. 2001. 14 1909 (iv-vi). 186

Bianchi, V. vide Andreev, V. D.

Bickerton, W. Notes on Birds observed in Hertfordshire during the year 1907. Watford Trans. Herts. Nat. Hist. Soc. 14 1909 (63-80). 137

Bieber, C. vide Seeger, J. H. W.

Birchley, S. W. British birds for eages, aviaries and exhibition. 2 vols., 234 pp. and many plates. London 1909 8vo. [review Avicult. Mag. 1 1909 pp. 76-77].

Bird, M. C. H. The average weight of Snipe. Brit. Birds London 2 1909 (312).

Blaauw, F. E. [Breeding of the Golden-eye (Clangula glaucion) in captivity.] Ibis London 1909 (188–189).

Blackwelder, Eliot. Summer birds of Iron county, Michigan. Auk Cambridge Mass. 26 1909 (363-370). 141

Blackwood, G. C. Parasitic habits of the Black-headed Gull. Ann. Seot. Nat. Hist. Edinburgh 1909 (117). 142

Bladen, W. W. Bird Notes (1907-8), chiefly taken at Stone. Stafford Rep. Trans. N. S. F. Cl. 43 1909 (83-95).

Blaizot, L. Études sur la spirochétose des poulcs produite par Sp. gallinarum (virus somali). La maladie ehez les poussins. I. Modifications de la virulence du parasite par passages

directs. Paris C. R. soc. biol. 67 1909 (421-423 447-449). 144

Blake, Sidney F. Unusual records for Massachusetts. Auk Cambridge Mass. 26 1909 (198–199). 145

Blanc, J. Notes ornithologiques. Chalon-sur-Saône Bul. soc. sci. nat. 35 1909 (3-4).

Blanchard, R. Cotylorhipis furnarii (del. Pont.). Nouveau genre de Téniadés [chez le Fournier (Funarius rufus)]. Arch. parasit. Paris 13 1909 (477-482) fig. 147

Blathwayt, F. L. Lincolnshire Gulleries (*Larus ridibundus*). Zoologist London 13 1909 (139-144). 148

Bloomfield, E. N. Annual notes on the local fauna [of the Hastings district]. Hastings & E. Sussex Nat. 1 1909 (186-191). 149

Blount, M. The early development of the Pigeon's egg, with special reference to polyspermy and the origin of the periblast nuclei. J. Morph. Philadelphia Pa. 20 1909 (1-64). 54 figs.

Boas, I. E. V. Lidt om Stæren, særlig om dens økonomiske Betydning. [About the utility and harmfulness of Sturnus vulgaris.] Kjöbenhavn Haven 9 1909 (89-93).

B[oe]ttg[e]r, [O.] Die lateinischen Namen unserer deutschen Vögel III. [Betr. Hartert, Vögel d. paläarkt. Fauna.] Zool. Beob. Frankfurt a. M. 50 1909 (178-181).

B[oe]ttg[e]r, [O.] Brütet der Wiesenpieper (Anthus pratensis (L.)) im Untermaingebiet? Zool. Beob. Frankfurt a. M. 50 1909 (311).

Bonar, H. N. Hawfinch in East Lothian. Ann. Scot. Nat. Hist. 1909 (48).

Bonhote, J. L. Migration notes from North Holland. Ornis London 18 1909 (162-173).

Bonhote, J. L. [Exhibition of a hybrid Duck containing the blood of the following species—Anas boscus, A. poecilorhyncha, A. superciliosa, and Dafila acuta.] London Bull. Brit. Ornith. Cl. 23 1909 (96) also London Proc. Zool. Soc. 1909 (598-599). 156

Bonhote, J. L. The Giza Zoological Gardens. Avicult. Mag. Brighton 7 1909 (268-273). 157 Bonhote, J. L. vide Nicoll.

Bonnerjee, Gobin Lal vide Phillott, D. C.

Bonomi, A. La straordinaria invasione dei Crocieri nell' estate del 1909. Avicula Siena 12 1909 (35-37).

Bonomi, A. Ornitologi defunti—Dott. Eugenio Ray. Avicula Siena 12 1909 (117-118).

Bonomi, P. Dalla Sardegna, Avicula Siena 12 1909 (62-66 87-90). 160

Booth, H. B. The changing distribution of the Long-tailed Titmouse in the West Riding. Naturalist London 1909 (55-57). 161

Booth, H. B. Paucity of Redwings in the West Riding. Naturalist London 1909 (78-79). 162

Borrer, C. [The Northern Willow-Wren (Phylloscopus trochilus eversmanni) in Norfolk.] London Bull. Brit. Ornith. Cl. 23 1909 (58).

Borrer, C. and Witherby, H. F. Northern Willow-wren in Norfolk. Brit. Birds London 2 1909 (342-343).

Botezat, E. Die sensiblen Nervenendapparate in den Hornpapillen der Vögel im Zusammenhang mit Studien zur vergleichenden Morphologie und Physiologie der Sinnesorgane. Anat. Anz. Jena 34 1909 (449–468).

Botezat, Eugen. Fasern und Endplatten von Nerven zweiter Art an den gestreiften Muskeln der Vögel. Anat. Anz. Jena 35 1909 (396–398).

Boussac, Hippolytc. Identification de quelques oiseaux représentés dans les monuments pharaoniques. Naturaliste Paris 30 1908 (105–107 179–181 230–231 242–243 252–254 276–277 285); 31 1909 (29–30 48–49 62–63 106–108, 156–157 161–163 191 206–207 216 230–231 237–238 263–266 277–278).

Boussac, P.-Hippolyte. Le pigcon dans l'ancienne Egypte. Nature Paris 37 1909 2° sem. (264-268) fig. 168

Bouteillier, R. S. Bird migration 1908, observations made on Sable Island, Nova Scotia. Ottawa Nat. 23 1909 (149-150).

Bowdish, B. S. Ornithological miscellany from Audubon wardens. Auk Cambridge Mass. 26 1909 (116-128). Bowles, J. H. Three new records for the state of Washington and one for Oregon. Auk Cambridge Mass. 26 1909 (200).

Bowles, J. H. Notes on Parus rufescens in Western Washington. Condor Hollywood Cal. 11 1909 (55–57).

Bowles, J. H. vide Dawson, W. L.

Boxberger, Georg von. Frühlingsbeobachtungen aus Marburg a. L. [Phänologisch.] Gefied. Welt Magdeburg 88 1908 (197-199 205-206).

Boxberger, Georg von. Brutnotizen zur Ornis Marpurgensis aus dem Jahre 1908. Zs. Oologie Berlin 18 1908-09 (129-132 144-148 161-162). 174

Boxberger, Leo v. Ueber die natürliche Begrenzung der paläarktischen Ornis. Ornith. Jahrb. Hallein 20 1909 (134-139).

Boxberger, Leo v. Aus Deutsch-Südostafrika. Zs. Oologie Berlin 18 1909 (178–180).

Boxberger, Leo v. Ucber Brutplatz und Eier zweier ostafrikanischer Eisvögel (Halcyon albiventris orientalis Ptrs. und Alcedo semitorquata Sw.). Zs. Oologie Berlin 19 1909 (21-22).

Boxberger, Lco v. Weitere Beiträge zur Fortpflanzung des Graufischers Ceryle rudis L. Zs. Oologie Berlin 19, 1009 (51-52).

Braislin, William C. Notes concerning certain birds of Long Island, New York. Auk Cambridge Mass. 26 1909 (314-316).

[Brander, V.] Flyttfåglarna [i Finland]. [Die Zugvögel in Finland.] F. Jakttidn. Helsingfors 2 1907 (109, 133) 3 1908 (31 95 123 157 373).

[Brander, V.] Märkt kråka. [Mit Marke versehene Krähe.] F. Jakttidn, Helsingfors 2 1907 (168 196). 181

[Brander, V.] Sällsynt alfågel [albinos]. [Albinos von Harelda hiemalis L.]. F. Jakttidn. Helsingfors 2 1907 (195).

[Brander, V.] En blåkråka [i Pihtipudas socken]. [Coracias garrula L. im Kirchspiel Pihtipudas, Finland]. F. Jakttidn. Helsingfors 2 1907 (196).

[Brander, V.] [Två exemplar af storskarfven från södra Finland.] [Zwei Exemplare von *Phalacrocorax* carbo aus Süd-Finland.] F. Jakttidn. Helsingfors 2 1907 (291). 184

[Brander, V.] Storskarfven (Phalacrocorax carbo L.). [Phalacrocorax carbo L.] F. Jakttidn. Helsingfors 3 1908 (22-28) 2 Fig. 185

B[rander], V. Hvarför flyga vissa fåglar i regelbundet ordnade skaror? [Warum fliegen gewisse Vögel in regelmässig geordneten Haufen?] F. Jakttidn. Helsingfors 3 1908 (73–79 176–182).

[Brander, V.] Märkt ripa. [Mit Marke verschenes *Lagopus*-Exemplar.] F. Jakttidn. Helsingfors 3 1908 (92). 187

[Brander, V.] Hvit kråka. Svala med hvita vingar. [Weisse Krähe. Hirundo urbica mit weissen Flügeln.] F. Jakttidn. Helsingfors 3 1908 (264).

B[rander], V. Själfhjälp hos fåglar. [Selbsthilfe bei Vögeln.] F. Jakttidn. Helsingfors 3 1908 (321–326) Fig. 189

[Brander, V.] En brefdufva, [försedd med märke]. [Mit Marke versehene Brieftaube.] F. Jakttidn Helsingfors 3 1908 (335).

[Brander, V.] [Fynd af rosenstaren i Finland.] [Funde von Pastor roseus in Finland.] F. Jakttidn. Helsingfors 3 1908 (337 374).

[Brander, V.] Sällsynta fåglar. [Seltene Vögel.] F. Jakttidn. Helsingfors 4 1909 (67 94-95 210 275 303 336 337 370).

[Brander, V.] Flyttfåglarna år 1909. [Die Zugvögel in Finland im Jahre 1909.] F. Jakttidn. Helsingfors 4 1909 (68 94 126 155 211 337).

B[rander], V. Återblick på jaktåret 1908–1909. [Rückblick auf das Jagdjahr 1908–1909.] F. Jakttidn. Helsingfors 4 1909 (361–364).

Braun, Fritz. Tiergeographische Fragen, das propontische Gebiet betreffend. I. Beiträge zur Ornis der rumelischen und bithynischen Halbinseln. (Kgl. Gymnasium zu Marienburg. Wiss. Beil. z. Progr. Ostern. 1908.) Marienburg (F. Grossnick) 1908 (44). 20 cm. Braun, Fritz. Bemerkungen zur Ornis Konstantinopels. J. Ornith. Leipzig 57 1909 (83–88). 196

Braun, Fritz. Vom Gesange der Vögel. Eine Entgegnung auf die Arbeit des Dr. Plaseek in der "Gef. Welt" Jahrgang 1908. No. 25 ff. J. Ornith. Leipzig 57 1909 (212–222).

Braun, Fritz. Die Ornis der Marienburg. Danzig Ber. bot.-zool. Ver. 31 1909 (124–128).

Brewer, Mrs. Ernest. The Carolina Wren (Thryothorus ludovicianus) at Falmouth, Maine. Auk Cambridge Mass. 26 1909 (82).

Brewster, William. Barrow's Goldeneye in Massachusetts. Auk Cambridge Mass. 26 1909 (153-164). 200

Brewster, William. Something more about Black Ducks. Auk Cambridge Mass. 26 1909 (175-179). 201

Brewster, William. A recent instance of the occurrence of the White Pelican (Pelecanus erythrorhynchos) in Massachusetts. Auk Cambridge Mass. 26 1909 (185–186).

Brewster, William. The European Widgeon (Mareca penelope) in Rhode Island. Auk Cambridge Mass. 26 1909 (186–188).

Brewster, William. Snow geese in Massachusetts. Auk Cambridge Mass. 26 1909 (188-189). 204

Brewster, William. Occurrence of the Whimbrel (Numenius phaeopus) off the coast of Nova Scotia. Auk Cambridge Mass. 26 1909 (190-191).

Brewster, William. Evening Grosbeaks again in Massachusetts. Auk Cambridge Mass. 26 1909 (194). 206

Brewster, William. Prothonotary Warbler taken on the coast of Maine. Auk Cambridge Mass. 26 1909 (309).

Brewster, William. Breeding of the Louisiana Water-Thrush (Sciurus motacilla) in Berkshire county, Massachusetts. Auk Cambridge Mass. 26 1909 (310-311).

Browster, W. Eggs of the Flicker (Colaptes auratus luteus) found in an odd place. Bird-Lore Harrisburg Pa. 11 (73-74).

Brimley, H. H. North Carolina notes. Auk Cambridge Mass. 26 1909 (436-437). 210

Broberg, C. A. Skjuten storskarf. [Geschossenes Exemplar von Phalacorax carbo L.] F. Jakttidn. Helsingfors 3 1908 (29).

Brock, S. E. The Black-headed Gull as a persecutor of the Lapwing. Ann. Scot. Nat. Hist. Edinburgh 1909 (117).

Brøgger, A. W. Vistefundet en aeldre stenalders Kjökkenmödding fra Jaederen. Stavanger (102) 5 pls. 1908 [cf. Ibis 1909 p. 362]. 213

Brook, E. J. The value of failures. Avicult. Mag. Brighton 7 1909 (159-160). 214

Brook, E. J. The breeding of the Black Lory, (Chalcopsittacus ater). Avicult. Mag. Brighton 1 1909 (28-29).

Brooks, Allan. Some notes on the birds of Okanagan, British Columbia. Auk Cambridge Mass. 26 1909 (60-63).

Brooks, Allan. Three records for British Columbia. Auk Cambridge Mass. 26 1909 (313–314). 217

Brooks, [Earle A.]. List of birds found in West Virginia; in Report West Virginia State Board Agric. for quarter ending Dec. 31 1908 1909 (65) 4 pls. 8vo.

Brooks, Earle A. Notes from West Virginia. Auk Cambridge Mass. 26 1909 (84–85). 219

Brown, Frank A. The Cardinal at Ipswich, Mass. Auk Cambridge Mass. 28 1909 (194–195).

Brown, Nathan Clifford. The Spruce Partridge in the White mountains. Auk Cambridge Mass. 26 1909 (428–429). 221

Brown, Nathan Clifford. Note on the Red Crossbill and the Pine Finch in South Carolina. Auk Cambridge Mass. 26 1909 (432). 222

Bruce, W. S. [edited by]. Report on the Scientific Results of the Voyage of S. Y. "Scotia" during the years 1902, 1903 and 1904. Vol. IV. Zoology. Part I. Zoological Log. (1-103), 33 pls and 2 maps. Edinburgh 1908 4to.

Brumpt, E. Sur une nouvelle spirochétose des Poules du Sénégal produite par Spirochaeta neuveuxi n. sp. Paris, Bul. soc. path. exot. 2 1909 (285-288).

Brumpt, E. Existence d'une spirochétose des Poules à Spirochaeta gallinarum dans le pays Somali. Paris C. R. soc. biol. 67 1909 (174-176).

Brumpt, E. et Foley. Existence d'une spirochétose des Poules à Spirochaeta gallinarum R. Bl., dans le Sud-Oranais. Transmission de cette maladio par Argas persicus. Paris C. R. soc. biol. 65 1908 (132-134). 226

Bryan, W. A. Some birds of Molokai. Honolulu, H. I., Occ. Paprs. Bernice Pauahi Bishop Mus. 4 1908 (43–86) map and 7 illustr. 227

Büchner, W. Nordseetaucher bei Cöthen. Ornith. Monatschr. Magdeburg 34 1909 (142-143). 228

Bucknill, J. A. On the Ornithology of Cyprus. Ibis London 1909 (569-613).

Bunyard, P. F. On the eggs of the Tree Pipit. Brit. Birds London 2 1909 (335-339). 230

Bunyard, P. F. Number of eggs laid by Terns. Brit. Birds London 3 1909 (198-199 223). 231

Burg, G. von. Die vertikale Verbreitung der Nistvögel im schweizerischen Jura. (380-1500 Meter über dem Meere.) Ornith. Monatschr. Magdeburg 34 1909 (460-470). 232

Burg, Gustav von. Ueber den Zug der Vögel durch die Schweiz. Ornith. Beob. Bern. 3 1904 (1-5 17-18 33-35 49-52 65-67 81-83); 4 1905 (1-4).

Burg, G. von. Die Graumelsen in der Schweiz. Verh. Schweiz. Natf. Ges. 90 1907 (72–73). 234

Burg, G. de vide Fatio, V.

Burnett, W. L. An early Colorado Ornithologist—William G. Smith. Condor Hollywood Cal. 11 1909 (197-199) portrait. 235

Burns, F. L. Alexander Wilson—v. The completion of the American Ornithology. vi. His nomenclature. vii. Biographies, Portraits and a Bibliography of the various editions

of his works. Wilson Bull. Oberlin Ohio 21 1909 (16-35 132-151 165-186).

Burns, F. L. Audubon correspondence. A letter from Audubon to Harlan, describing a supposed new species [i.e., Polyborus cheriwayi]. Wilson Bull. Oberlin Ohio 21 1909 (103-104).

Burns, F. L. Nidification of the worm-cating Warbler [Helmitherus vermivorus]. Wilson Bull. Oberlin Ohio 21 1909 (104-105) 1 fig. 288

Burrell, H. Young Stone-Plovers (Burhinus grallarius) and shingle. Emu Melbourne 8 1909 (150) pl. xiv.

Burrell, H. Blue Wrens nesting in Ivy. Emu Melbourne 9 1909 (34-35) pl. ii. 240

Burton, F. M. Notes on Rooks. Naturalist London 1909 (146-148).

Butler, A. G. cage and aviary. Foreign Birds for Part I. The smaller London n.d. (1-207).

Butler, A. G. The soft parts of the Blue-naped Coly. Avicult Mag. Brighton 7 1909 (94-96). 243

Butler, A. G. More about the Mountain-chat (Saxicola monticola). Avicult. Mag. Brighton 7 1909 (131-133).

Butler, A. G. Au unrecognized Amazon (Amazona hagenbecki). Avicult. Mag. Brighton 7 1909 (198–199). 245.

Butler, A. G. The Pintailed Nonpareil (Erythrura prasina). Avicult. Mag. Brighton 7 1909 (296–298). 246

Butler, A. G. Morality in Birds. Avicult. Mag. Brighton 7 1909 (325–329).

Butler, A. G. The genus Nymphicus. Avicult. Mag. Brighton 1 1909 (62-63).

Butler, A. G. Moral and Mental attributes in birds. Avicult. Mag. Brighton 1 1909 (65-68). 249

Butler, A. G. vide Gurney, G. H.

Butler, A. L. Contributions to the Ornithology of the Soudan. No. iii. On Birds collected by Captain E. P. Blencowe in the Bahr-el-Ghazal Province. Ibis London 1909 (72-90). 250 Butler, A. L. Contributions to the Ornithology of the Sudan. No. iv. On Birds observed on the Red Sea Coast in May, 1908. With appendix containing corrections to previous contributions. Ibis London 1909 (389–406). 251

Butler, A. L. [Letter concerning a Stork killed on the Blue Nile with a "Rossitten Vogelwarte" ring on its leg.] Ibis London 1909 (386-387).

Butler, A. W. An addition to the Birds of Indiana [Zonotrichia querula]. Indianapolis Ind. Proc. Acad. Sci. 1908 1909 (49). 253

Butterfield, W. R. An early work on bird-migration. Zoologist London 13 1909 (71-73). 254

Butterfield, E. P. Breeding of Coal-Tit in Wilsden District. Zoologist London 13 1909 (75). 255

[Buturlin, S. A.] Бутурлинъ, С. А. Интересныя находки. [Interessante Funde.] Naša ochota St. Peterburg 1909 2 (57-64). 256

[Buturlin, S.] Бутурлинъ, С. Интересныя находки. [Interessante Funde.] Naša ochota St. Peterburg 3 1909 11 (85-90). 257

[Buturlin, S. A.] Бутурлинъ, С. А. О полетъ птицъ противъ вътра. [Ueber den Flug der Vögel gegen den Wind.] Naša ochota St. Peterburg 1909 4 (33-51).

[Buturlin, S.] Бутурлинъ, С. Обогащеніе русской фауны. [Eine Bereicherung der Fauna Russlands.] Naša ochota St. Peterburg 3 1909 8 (59-63). 259

[Buturlin, S.] Бутурлинъ, С. Еще два слова о бекасовидномъ веретенникъ. [Noch einige Worte über Pseudoscolopax taczanowskii Verr.] Naša ochota St. Peterburg 3 1909 12 (121–122).

Buturlin, S. A. Den Herrn Jägern zur Beachtung! [Durchzug von Syrrhaptes paradoxus.] N. Balt. Weidm. blt. Riga 4 1908 (300–301). 261

Buturlin, S. A. Pseudoscolopax taczanowskii (Verr.) am Irtysch. Ornith. Monatsber. Berlin 17 1909 (3). 262 Buturlin, S. A. Rostratula capensis L. im Ussuri-Gebiet. Ornith. Monatsber. Berlin 17 1909 (155). 263

Buturlin, S. A. und Härms, M. Sturnus balcanicus n. sp. Ornith. Monatsber. Berlin 17 1909 (56-57). 264

Buxton, M. L. A trip to Spain, April, 1908. Norwich Trans. Nat. Soc. 8 1909 (667-677). 265

Cajal, S. R[amon y]. Les ganglions terminaux du nerf acoustique des oiseaux. J. Psychol. Leipzig 13 1908 (214-230) 1 Taf. 266

Calinescu, J. vide Mezinescu, D.

Campbell, A. G. The Flame-breasted Robin (Petroeca phoenicea): a Monograph. Emu Melbourne 8 1909 (122– 130). 267

Campbell, A. G. The genus Pardalotus. Emu Melbourne 9 1909 (22-23).

Campbell, A. J. Annotations. Emu Melbourne 8 1909 (142-148).

Campbell, A. J. Camp-out on Philip Island. Emu Melbourne 8 1909 (207–210) pl. xviii. 270

Campbell, B. Old dovecots (Scotland). Edinburgh Trans. F. Nat. Soc. 6 1909 (96-107) pls. vi-vii. 271

Campbell, D. C. Glossy Ibis in Cos. Donegal and Derry. Irish Nat. Dublin 18 1909 (256). 272

Cardamatis, Jean P. Observations sur les microfilaires, trypanosomes et hématozoaires chez les Oiseaux en Grèce. Paris Bul. soc. path. exot. 2 1909 (268).

Cardamatis, J. P. Le paludisme des oiseaux en Grèce. Étude biologique et histologique du parasite de Danilewsky. Centralb. Bakt. Jena Abt. 1 52 1909 (351-368) pls. i-ii. 274

Carini, G. Note per un vocabolario ornitologico Bresciano. Avicula Siena 12 1909 (68-69 92-96). 275

Carr, J. W. Nottinghamshire bird notes. Zoologist London 13 1909 (113). 276

Carruccio, Antonio. Cenno illustrativo sovra un fagiano venerato, Syrmaticus reevesi J. E. Gray donato da S. M. il Re Vittorio Emanuele III al Museo Zoologico della R. Università di Roma. Roma Boll. Soc. zool. ital. 10 1909 (274-277). 277

Carter, C. S. Crossbills at Louth. Naturalist London 1909 (280). 278

Carter, C. S. vide Walker, H.

Carter, T. Re Amytis varia, Carter. Vict. Nat. Melbourne 26 1909 (95).

Cary, Merritt. New records and important range extensions of Colorado birds. Auk Cambridge Mass. 26 1909 (180–185).

Cary, Merritt. A correction. Auk Cambridge Mass. 26 1909 (312). 281

Castellain, A. List of birds and flowers of Bath and its neighbourhood observed in the year 1907. Bath Proc. Nat. Hist. F. Cl. 11 1909 (164–185).

Caster, Gustav. Wandern unserer Standvögel. Sanet Hubertus Cöthen 27 1909 (174–177). 283

Castle, W. E. Color variation among domesticated animals. American Breeders' Association Report Washington D.C. 4 1908 (172–180). 284

Cavazza, Filippo. Nota intorno a una incursione e nidificazione della Loxia curvirostra L. nell'Emilia. Roma Boll. Soc. zool. ital. 10 1909 (462-470).

Cave, C. J. P. Alpine Swift in Pembrokeshire. Brit. Birds London 2 1909 (381-382).

Ceppi, Louis. Observations sur les mœurs et la reproduction du coucou cendré (Cuculus canorus). Paris Bul. soc. nat. acclim. 55 1908 (497-505).

Cerva, Frigyes. A fiatal gólyák itatása a fészekben. [Das Tränken der jungen Störche im Nest.] Aquila Budapest 15 1909 (311–312). 288

Chaignon, H. de. Note sur la perdrix grise des Pyrénées (*Pérdix cinerea* charrela). Autun Bul. soc. hist. nat. 19 1906 (Proc. verb. 42-45). 289

Chaignon, H. de. Sur une Perdrix à plastron. Autun Bul. soc. hist. nat. 20 1907 (Proc.-verb. 35-37). 290

Chandler, L. G. (Red-browed Treecreeper. Emu Mellourne 9 1909 (94-95). 291 Chapel, Fernand de. Les migrations des Oiscaux. Paris Bul. soc. nat. acclim. 56 1909 (409-411). 292

Chapel, F. de. Un peu plus de lumière sur les migrations. Paris Rev. Fr. d'Orn. 1 1909 (41-43). 293

Chapman, A. On safari; big-game hunting in British East Africa with studies in bird-life. (xvi + 340) London 1908 8vo. 294

Chapman, F. M. Camps and cruises of an Ornithologist. With 250 photographs from Nature by the author. (xvi + 432) New York 1908 8vo. 295

Chapman, F. M. The feud of the Crows and the Owl. Bird-Lore Harrisburg Pa. 11 1909 (4-6). 296

Chapman, F. M. The Habitat Groups of North American birds in the Américan Museum of Natural History. New York N.Y. Amer. Mus. Nat. Hist. Leaflet No. 24 1909 (46). 297

Charlemagne, E. W. vide Scharleman.

Charnley, J. R. and Heathcote, W. H.
The birds of the Ribble Estuary.
Lancs. Nat. 2 1909 (18-20 153-157
211-212 231-232).

Charruaud, A. A propos du pape de Nouméa (*Erythrura psittacea*). Paris Rev. Fr. d'Orn. 1 1909 (58-60). 299

Charruaud, A. Le diamant merveilleux (Poëphila mirabilis) et le moineau de Gould (Chloebia gouldiae). Paris Rev. Fr. d'Orn. 1 1909 (106-110 120-124).

Charvilhat. Prodrome d'une faune du Puy-de-Dôme (Oiseaux). Rev. sci. Bourbon. Moulins 21 1908 (102-126). 301

Chernelhaza, S. C. von. Beiträge zur Nahrungsfrage unserer carnivoren Vogelwelt. Aquila Budapest 16 1909 (145-155).

Cherrie, Geo. K. A spring record for Bicknell's Thrush on Long Island. Auk Cambridge Mass. 26 1909 (196). 303

Cherrie, G. K. New birds from the Orinoco Region and from Trinidad. Brooklyn N.Y. Mus. Inst. Arts Sci. Bul. 1 1909 (387-390).

Cheux. Observations sur l'arrivée de plusieurs oiseaux faites à la Baumette, près Angers, de 1874 à 1908. Nantes Bul. soc. sci. nat. 17 1907 (115), also Feuille jeunes natural. Paris 38 1907–1908 (259). 305

Chigi, Francesco. Notizie complementari sulla incursione del Syrrhaptes paradoxus (Pall.) nell' Europa orientale nell' anno 1908. Roma Boll. Soc. zool. ital. 10 1909 (154–156). 306

Chigi, Francesco. Intorno al Melanonyx brachyrhynchus (Baillon) e ad un esemplare riferibile a questa specie colto nella provincia di Roma. Roma Boll. Soc. zool. ital. 10 1909 (157–163).

Chigi, Francesco. Caratteri sessuali e fasi evolutive nel primaggio dell'Anas boscas L. Roma Boll. Soc. zool. ital. 10 1909 (223-232). 308

Chigi, Francesco. I generi Anser Brisson e Melanonyx But. Retificita e aggiunte. Roma Boll. Soc. 2014, ital. 10 1909 (450-453).

Chisholm, A. H. Wood-Swalle will also Honey-eaters. Emu Melbourn 8 1909 (219–220); 9 1909 (32–33). 310

Chlebovský. Aberration von Corous frugilegus in Mähren erlegt. Ornith. Jahrb. Hallein 20 1909 (154). 311

Christian, E. J. Notes on the Blacktailed Native-Hen (Microtribonyx vertralis). Emu Melbourne 9 1909 (95-97).

Christiansen, N. Kraekerfinken (Fringilla montifringilla) som Dansk ynglefugl. [The Brambling breeding in Denmark.] Kjöbenhavn Ornith. Tids. 3 1909 (60-61). 313

Chubb, C. [Description of Troglodytes cobbi sp. nov. from the Falkland Isles.] London Bull, Brit. Ornith. Cl. 25 1909 (15-16).

Chubb, C. vide Sharpe, R. B.

Chubb, E. C. On the Birds of Bulawayo, Southern Rhodesia. Ibis London 1909 (140-172). 315

Chubb, E. C. On birds collected between Bulawayo and the Tegnani River. Pretoria J. S. Afric. Ornith. Union 5 1909 (67-72).

clarke, W. E. On the occurrence of Eversmann's Warbler (*Phylloscopus borealis* (Blasius)) at Fair Isle: an addition to the British Fauna. Ann. Scot. Nat. Hist. Edinburgh 1909 (1-2); also Brit. Birds London 2 1909 (310).

Clarke, W. E. Little Bunting and other birds at Sule Skerry [Orkney Isles]. Ann. Scot. Nat. Hist. Edinburgh 1909 (48).

Clarke, W. E. The birds of Fair Isle. iv. Report on observations made during the year 1908. Ann. Scot. Nat. Hist. Edinburgh 1909 (69-75).

Clarke, W. E. On the occurrence of Brünnich's Guillemot in the Firth of Forth. Ann. Scot. Nat. Hist. Edinburgh 1909 (75-76).

Clarke, W. E. The occurrence of Phylloscopus borealis, not P. viridanus at Sule Skerry: a correction. Ann. Scot. Nat. Hist. Edinburgh 1909 (114-115).

Clarke, W. E. The recent remarkable visitation of Crossbills. Ann. Scot. Nat. Hist. Edinburgh 1909 (215-217). 322

(larke, W. E. Ruddy Sheld-Duck at Sule Skerry, Orkney. Ann. Scot. Nat. Hist. Edinburgh 1909 (247). 323

Cherke, W. E. The chicks of the Sanderling. Brit. Birds London 3 1909 (33-35) pl. ii. 324

Garke, W. G. Bird-life of the meres. Norwich Trans Nat. Soc. 8 1909 (747-754).

Clarke, W. J. vide Wade.

tieland, J. B. Notes on several birds found at Strelley river (Pt. Hedland, Marbie Bar Road), N.W. Australia Enm Melbourne 8 1909 (155– 156). 326

Cleland, J. B. and Johnston, T. H. Descriptions of new Haemoprotozoa from birds in New South Wales, with a note on the resemblance between the spermatozoa of certain Honoyeaters (Fam. Meliphagidae) and Spirochaeterypanosomes. Sydney J. Proc. R. S. N.S.W., 43 1909 (75-96) pls. i-it.

Clodius, G. & omithologischer Bericht über Macklembarg (und Lübeck) für das Jahr 1908: Güstrow Arch. Ver. Natg. 63 1869 (947-197) 2 Taf. 328

Clyne, R. ited-breasted Flycatcher and other Birds at the Butt of Lewis. Ann. Scot. Nat. Wiss. Edinburgh 1909 (48). 329 Coburn, F. Marsh-Warbler breeding in Worcestershire. Brit. Birds London 3 1909 (157–159). 330

Cockell, N. F. Notes on breeding the Jungle Bush-Quail. (Perdicula asiatica.) Avicult. Mag. Brighton 7 1909 (234–235). 331

Cocks, A. H. Memoir of Thomas Southwell. Brit. Birds London 3 1909 (173-178) pl. xi. 332

Cole, C. F. Notes on the Black-faced Cuckoo-Shrike. (Graucalus melanops, Latham.) Emu Melbourne 8 1909 (154– 155). 333

Cole, Leon J. The destruction of birds at Niagara Falls. Auk Cambridge Mass. 26 1909 (63-65). 334

Cole, Leon J. Carolina Wren (*Thryothorus ludovicianus*) in Rhode Island. Auk Cambridge Mass. **26** 1909 (81–82).

Cole, Leon J. The tagging of wild birds as a means of studying their movements. Auk Cambridge Mass. 26 1909 (137-143).

Cole, L. J. The Crow a menace to Poultry raising. Ann. Rep. Rhode Island Agric. Exper. Station 21 1909 (312-316).

Colo, Di, Francesco. Contributo alla conoscenza delle glandole del condotto uditivo esterno negli Uccelli. Monitore zool. ital. Firenze 20 1909 (335-343).

Colthrup, C. W. Eggs of the Cuckoo. Brit. Birds London 2 1909 (424). 339

Congreve, W. M. Rare birds in Pembrokeshire. Brit. Birds London 2 1909 (377-378). 340

Conte, A. Une variation brusque. Les poules à cou nu. Paris C. R. soc. biol. 66 1909 (255–257). 341

Cook, L. C. The Lyre bird at Poowong. Emu Melbourne 8 1909 (220– 221). 342

Cooke, Wells W. Some new birds for Colorado. Auk Cambridge Mass. 26 1909 (314). 343

Cooke, Wells W. The birds of Colorado—Third supplement. Auk Cambridge Mass. 26 1909 (400-422). 344

Cooke, W. W. The Migration of Flycatchers [Tyrannidae]. 8th paper. (n-11091 g)

Bird-Lore Harrisburg Pa. 11 1909 (12-14). 345

Cooke, W. W. The migration of Vireos. Bird-Lore Harrisburg Pa. 11 1909 (78-82 118-120). 346

Cooke, W. W. The migration of North American Sparrows. Bird-Lore Harrisburg Pa. 11 1909 (254-260). 347

Corbett, H. H. Common Scoter at Doncaster; Cream coloured variety of the House Sparrow; Glossy Ibis near Doncaster. Naturalist London 1909 (441). 348

Cornwall, E. M. Notes on birds found breeding near Mackay, north Queensland. Emu Melbourne 8 1909 (138-141) pl. xii. 349

Cory, C. B. The birds of the Leeward Islands, Caribbean Sea. Chicago Ill. Field Mus. Pub. Ornith. ser. 1 1909 (193-256) map. 350

Cory, C. B. The birds of Illinois and Wisconsin. Chicago Ill. Field Mus. Publ. Zool. ser. 9 1909 (1-764).

Cottam, R. The pugnacity of a Swan in defence of nest. Lancs. Nat. n.s. 2 (71). 352

Cowan, W. Little Bittern in Orkney. Brit. Birds London 3 1909 (58). 353

Craig, W. The voices of pigeons regarded as a means of social control. Amer. Journ. Sociology 16 1908 (86-100): [cf. Auk 1910 (98)]. 354

Griddle, N. How the English Sparrow is adapting itself to new conditions of life. Ottawa Nat. 23 1909 (23-25).

Orossman, A. F. Birds seen at Cumminin Station, Western Australia. Emu Melbourne 9 1909 (84-90). 356

Crouch, L. W. and Turner, E. L. Large clutches of eggs of the Great Crested Grebe. Brit. Birds London 3 1909 (60-61).

Csiki, E. Positive Daten über die Nahrung unsererVögel.—Seehste Mitteilung. Aquila Budapest 16 1909 (139– 144). 358

Csörgey, T. Der praktische Vogel schutz in Ungarn in den Jahren 1908– 1909. Aquila Budapest 16 1909 (179– 223) pls. v-vi. 359 Csörgey, T. Ein Kukukjunges im Zimmerfenster. Aquila Budapest 16 (277-279). 360

Cummings, B. F. Ornithological notes from North Devon. Zoologist London 13 1909 (253-255). 361

Cummings, B. F. Notes on the fauna of Lundy Island. Zoologist London 13 1909 (441-446). 362

Currie, A. J. Nesting of the long-tailed grass-warbler (*Laticilla burnesi*) in the Punjab. Bombay J. Nat. Hist. Soc. 19 1909 (258-259).

Currie, A. J. The rufous-backed sparrow (Passer pyrrhonotus) nesting in the Punjab. Bombay J. Nat. Hist. Soc. 19 1909 (259-260). 364

Currie, A. J. Local birds' migration.
 Bombay J. Nat. Hist. Soc. 19 1909 (265).

Daehne. Schmetterlingsfeinde aus der Klasse der Vögel. Zs. Naturw. Stuttgart 81 1909 (184-187). 366

Daguin, E. Note sur une femelle de Tétras hybride. Paris Rev. Fr. d'Orn. 1 1909 (76).

Dahl, Svend. Peder Syvs Optegnelser om danske Fugle. [Notes on danish birds by a naturalist, Peder Syv, of the 17th century.] København Ornith. Tids. 3 1909 (100-112). 368

Dalgliesh. Familiar Indian Birds. 2nd ed. London 1909 8vo. 369

Damiani, G. Un' invasione di Croeieri all' Isola d'Elba. Avicula Siena 12 1909 (60-62). 370

Dant, Carl. Der Südzug des Seidenschwanzes (Ampelis garrulus L.) im Winter 1903-04. Ornith. Beob. Bern 3 1904 (36-38). 371

Dant, Carl. Der Herbstzug in Bern im Jahre 1905 unter namentlicher Berücksichtigung der Segler und Schwalben. Ornith. Beob. Bern 4 1905 (101-166 178-180). 372

Dant, Carl. Der Alpensegler Cypselus melba L. Neuere Berichte über die Berner Kolonie. Ornith. Beob. Bern 5 1906 (1-5 17-22 23-39). 373

Dantschakoff, Wera. Über die Entwicklung des Knochenmarks bei den Vögeln und über dessen Veränderungen bei Blutentziehungen und Ernährungsstörungen. Arch. mikr. Anat. Bonn 74 1909 (855–926) 2 Taf. 374

Davenport, C. B. Inheritance in pedigree breeding of poultry. American Breeders' Association Report Washington D.C. 3 1907 (26-33). 375

Davis, W. T. A colony of Hermit Thrushes at Yaphank, Long Island, N.Y. Auk Cambridge Mass. 26 1909 (435-436).

Dawson, W. L. and Bowles, J. H. The birds of Washington; a complete scientific and popular account of the 372 species of birds found in the State, illustrated by more than 300 original half-tones of birds in life, nests, eggs, and favourite haunts, from photographs by the author and others, together with 40 drawings in the text and a series of full-page colorplates by Allan Brooks. Seattle (The Occidental Publishing Co.) 2 vols. 1909 (xviii + 998) 4to.

Deane, Ruthven. Some original manuscript relating to the history of Townsend's Bunting. Auk Cambridge Mass. 26 1909 (269–272). 378

Deane, Ruthven. Additional record of the European Widgeon (Mareca penelope) [in Illinois]. Auk Cambridge Mass. 26 1909 (304).

Deane, Ruthven. Third record of the Purple Gallinule (Ionornis martinica) in Illinois. Auk Cambridge Mass. 26 1909 (305).

Deane, Ruthven. The Passenger Pigeon.—Only one pair left. Auk Cambridge Mass. 26 1909 (429). 381

Deane, Walter. Asio wilsonianus in Shelburne, New Hampshire. Auk Cambridge Mass. 26 1909 (78). 382

Dearborn, N. Catalogue of a collection of birds from British East Africa. Chicago III. Field Mus. Publ. Ornith. Ser. 1 1909 (141–190).

Delaurier, A. Observations sur la conservation et l'élevage de quelques oiseaux d'Asie. Paris Bul. soc. nat. acclim. 54 1907 (371-375). 384

Denman, A. A little-known pose of the kagu (*Rhinochetus jubatus*). Avicult. Mag. Brighton 1 1909 (51-52). 385

Dennis, D. W. and Petry, W. C. Notes and photographs of the develop-

ment of a buzzard. Indianapolis Ind. Proc. Acad. Sci. 1905 1906 (61-69).

Detmers, Erwin. Aus der Brutsaison 1908. [Lingen a. d. Ems.] Zool. Beob. Frankfurt a. M. 50 1909 (35–43).

Detmers, Erwin. Lie Ueberkreuzregel in der Vogelwelt. Ornith. Monatschr. Magdeburg 34 1909 (428-432).

D'Evelyn, F. W. The Tragedy of the Whistling Swans at Niagara Falls. Avicult. Mag. Brighton 7 1909 (92-94). 389

De Vine, J. L. Capture of an American Eider at Chicago. Auk Cambridge Mass. 26 1909 (426). 390

Dewar, Douglas. The birds of India. [Reprinted with author's corrections from J. R. Soc. Arts, London, LVII, 1908.] Washington D.C. Smithsonian Inst. Rep. 1908 1909 (617-639). 391

Dewar, D. The Paradise Flycatcher. (Terpsiphone paradisi.) Avicult. Mag. Brighton 7 1909 (260-263). 392

Dewar, D. Nesting habits of the Baya [Ploceus baya]. Bombay J. Nat. Hist. Soc. 19 1909 (627-634). 393

Dewar, D. vide Ussher, R. J.

Dewar, J. M. Notes on the feedinghabits of the Dunlin (*Tringa alpina*). Zoologist London 13 1909 (1-14). 394

Dewar, J. M. Field notes on the "powder-down" of the Heron. British Birds London 2 1909 (285-289). 395

Dietz, Eugen. Die Echinostomiden der Vögel. Diss. Königsberg i. Pr. (Druck v. R. Leupold) 1909 (40). 23 cm.; Zool. Anz. Leipzig 34 1909 (180–192).

Dijussieu. Mœurs de la bécasse. Autun Bul. soc. hist. nat. 19 1906 (proc.-verb. 258–260).

Dille, Fred. M. Notes of occurrence and nesting of certain species additional to the 'Birds of Colorado.' Auk Cambridge Mass. 26 1909 (86-88). 398

Dionne, C. E. Quelques notes sur la migration de nos oiseaux. Nat. Canad. Quebec 36 1909 (177-179). 399

Distant, W. L. Obituary: Thomas Southwell. Zoologist London 13 1909 (354-356) portrait. 400

Dixon, J. A life history of the Northern Bald Eagle [Haliaeëtus leuco-(n-11091 g) cephalus alascanus]. Condor Hollywood Cal. 11 1909 (187-193). 401

Dobbrick, L. Circoëtus gallicus (Gm.) Brutvogel Westpreussens. Ornith. Monatschr. Magdeburg 34 1909 (208). 402

Dobbrick, L. Zum Brutgeschäft von Muscicapa parva (Bechst.). Zs. Oologie Berlin 18 1909 (163). 403

Domeier, H. Sterna hirundo oder macrura? Zs. Oologie Berlin 18 1909 (164).

Donner, Eugen. Etwas über Schusswunden bei Vögeln. Ornith. Monatschr. Magdeburg 34 1909 (322-331).

Dorning, Henrik. A vetési varjak és az időjárás. [Die Saatkrähen und die Witterung.] Aquila Budapest 15 1908 (316). 406

Dove, H. S. [Notes on Wood-Swallows, Cuckoos and Owls in Tasmania.] Nature Notes London 20 1909 (127-128 146-147).

Dove, H. S. Wood-Swallows clustering. Emu Melbourne 9 1909 (30).

Dove, H. S. West Devonport (Tas.) notes. Emu Melbourne 9 1909 (37– 38). 409

Dresser, H. E. Eggs of the Birds of Europe, including all the species inhabiting the Western Palaearctic Area. Parts 13-18 1908-1909 (429-636) 24 pls. London 4to. 410

Dresser, H. E. On the Occurrence of Pseudoscolopax taczanowskii in Western Siberia. (418–421) pl. viii. London 1909

Dresser, H. E. [On the name of the White-spotted Bluethroat.] Ibis London 1909 (561). 412

Dresser, H. E. [Exhibition of and remarks on skins and eggs of *Pseudoscolopax taczanowskii* (Verr.)] London Bull. Brit. Ornith. Cl. 23 1909 (60-61).

Dresser, H. E. [Note on the eggs of Numenius tenuirostris, Gallinago megala, and Numenius arquatus lineatus from Siberia.] London Bull. Brit. Ornith. Cl. 25 1909 (38-39).

Drummond, J. Birds on Kapiti Island. Wellington Trans. N. Zeal. Inst. 41 1909 (30-32). 415

e 11-2

Dubois. Comment on doit envisager le type du *Buceros sharpii* de Elliot. Paris Bul. soc. zool. 34 1909 (129-133).

Dubois, A. De la spécificité des Merula fuscata et naumanni. Paris Rev. Fr. d'Orn. 1 1909 (33-34). 417

Dubois, A. Reflexions sur l'espèce en ornithologie. Paris Rev. Fr. d'Orn. 1 1909 (113-115). 418

Dubois, A. Steganopodes fam. Pelecanidae in Wytsman's Genera Avium. 7th part (4) 1 plate Brussels 1907 4to.

Dubois, A. Picariae fam. Muscophagidae in Wytsman's Genera Avium. 8th part (9) 2 plates Brussels 1907 4to.

Duerden, J. E. The domesticated ostrich in South Africa. Pretoria J. S. Afric. Omith. Union 5 1909 (5-16); also Cape Town Rep. S. Afric. Ass. 6 1909 (155-161).

Duesberg, J. Ueber Chondriosomen und ihre Verwendung zu Myofibrillen beim Hühnerembryo. Anat. Anz. Jena 34 ErgH. 1909 (123-127) 1. Taf. 422

Duffaut. Le loriot. Toulouse Bul. soc. hist. nat. 41 1908 (68-70). 423

Duncalfe, A. H. Nesting of the Nightingale (Daulias luscinia) on the borders of Staffordshire and Shropshire. Zoologist London 13 1909 (28–29).

Duncalfe, A. H. Nesting of the Lesser Spotted Woodpecker (Dendrocopus minor) and the Great Spotted Woodpecker (D. major) in Stafford shire, Zoologist London 13 1909 (29– 30).

Dwight, J[onathan], jun. · The Bluebird (Sialia sialis) in Quebeo. Auk Cambridge Mass 26 1909 (83). 426

Dwight, Jonathan, jun. The singular case of the Black Duck of North America. Auk Cambridge Mass. 26 1909 (422-426).

Dwight, J. The popular names of birds. Condor Hollywood Cal. 11 1909 (43-45). 428

Dybowski, B. Notatki naukowe. [Notices scientifiques.] Kosmos Lwów 34 1909 (508-512).

Eckardt, Wilh. R. Ueber die Entstehung des Vogelzuges. J. Ornith. Leipzig 57 1909 (32-42). 430

Eckardt, Wilh. R. Ueber die Gründe der Entstehung des Vogelzuges. Natur u. Kultur München 6 1909 (528-531). 431

Eckstorm, Fannie Hardy. The Meadowlark in Maine, and other notes. Auk Cambridge Mass. 26 1909 (430-432).

Eifrig, G. Birds observed at Ottawa, Ontario, winter 1908-9. Ottawa Nat. 22 1909 (262-265). 433

Eifrig, G. The Prairie Warbler (Dendroica discolor) in northern Ontario and other notes. Ottawa Nat. 23 1909 (113-115).

Eifrig, G. Winter birds of New Ontario, and other notes on northern birds. Auk Cambridge Mass. 26 1909 (55-59).

Eifrig, G. The Grasshopper Sparrow at Ottawa, Ontario. Auk Cambridge Mass. 26 1909 (432). 436

Eifrig, G. The Prairie Warbler (Dendroica discolor) in northern Ontario. Auk Cambridge Mass. 26 1909 (432-433).

Eifrig, G. Additions to the list of birds of Allegany and Garrett counties, western Maryland. Auk Cambridge Mass. 26 1909 (437-438). 438

Ekman, Sven. Ett bidrag till sångsvanens historia i Skandinavien. [A contribution to the history o' Cygnus cygnus in Scandinavia.] Fauna och Flora Uppsala 3 1908 (292-297). 439

Eldred, E. J. H. The Great Bustard, observations and remarks on some in captivity and attempts to domesticate them. Norwich Trans. Nat. Soc. 8 1909 (727-731).

Elliot, D. G. Remarks on the species of the genus *Rheinardtius*. Ann. Mag. Nat. Hist. London (8) 4 1909 (242-243).

Elliott, J. S. Notes on the nesting of the Sparrow-Hawk (Accipiter nisus). Zoologist London 13 1909 (467-468).

Ellis, G. W. and Gardner, J. A. The origin and destiny of cholesterol in the animal organism. Part iv. The cholesterol contents of eggs and

London Proc. R. Soc. B81 chicks. 1909 (129-132). 443

Bird-life in a spring Ellison, A. Brit. Birds London 2 snowstorm. 1909 (301-304). 444

Elton, H. B. Amputation of Lapwing's toes by means of wool. Brit. Birds London 2 1909 (281).

Emmrich, P. Beitrag zur Verbreitung des Zwergfliegenfängers. Ornith. Monatschr. Magdeburg 34 1909 (307).

Engholm, V. A. Anteekningar från sjön Tåkern och omnejd under år [Notes from the Tåkern-lake and its environs during 1907.] Fauna och Flora Uppsala 3 1908 (83-87). 447

Etoc, G. Les oiscaux de France, leurs œufs et leurs nids. Paris Rev. Fr. d'Orn. 1 1909 (53-57 78-84).

Etzel, Theodor. Albinismus beim Zool. Beob. Frankfurt a. M. Star. 50 1909 (25-27).

[Evans, A. H.] Biographical notices of the Original Members of the British Ornithologists' Union, of the principal Contributors to the first series of "The Ibis" and of the Officials. Ibis London Jubilee Supplement Vol. 1909 (71-232).

Evans, H. M. On the earliest bloodvessels in the anterior limb buds of birds and their relation to the primary subclavian artery. Amer. J. Anat. Baltimore Md. 9 1909 (281-319).

Evans, H. M. The birds of Paradise. Plymouth Ann. Rep. Trans. Inst. 14 1906 (269-282). 452

Evans, W. The food of the Common Brit. Birds London 3 1909 (165-167).453

Evans, W. vide Gould.

Évry, G. d'. Cl Oiseaux de France. Classification des Naturaliste Paris 31 1909 (150-152 163 165 175-178 189-190 200-202 217-219 227-228). 454

Ewald, J. R. Das Augenschwingen der Vögel. Arch. exper. Path. Leipzig SupplBd 1908 (164-170).

Falconieri di Carpegna, Guido. Sulla cattura di un Cursorius gallicus Ad. nelle spiagge romane. Roma Boll. Soc. zool. ital. 10 1909 (236-238). 456

Farmborough, P. W. [Letters regarding Rails in Kent.] Avicult. Mag. Brighton 7 1909 (112-113 306-307). 457

Farn, A. B. Phylloscopus sibilatrix. Zoologist London 13 1909 (28). 458

Fasey, W. A. Nesting of the Bluewinged Grass Parakeet (Neophema venusta). Avieult Mag. Brighton 7 1909 (357-358).

Fassbender, Jean. Beobachtungen und Erfahrungen betr. Variationen der Kanarienvogel. St. Gallen Jahrb. Natw. Ges. 1904 1905 (54-56).

Fawcett, J. W. Crossbills in Durham. Naturalist London 1909 (441).

Fatio, V. Quelques colonies d'oiseaux aquatiques. Arch. Sci. Phys. Genève (4) **20** 1906 (381–385).

Fatio, V. et Studer Th. Catalogue Vº Livraides Oiseaux de la Suisse. son: Roitelets et Pouillots. VIO Livraison: Calamohergiens; élaborée par G. de Burg. Genève 8vo 1908 1909 (671-816 817-974) 1 carte.

Feilden, H. W. Some Sussex avens. Brit. Birds London 2 1909 Ravens. (279-280); 3 1909 (27-28).

Feilden, H. W. Ravens as seaven-Brit. Birds London 3 1909 (57-58). 465

Felger, A. H. Wild Turkeys (Meleagris gallopavo) in Illinois. Auk Cambridge Mass. 26 1909 (78).

Felger, A. H. Colorado notes. Auk Cambridge Mass. 26 1909 (85-86).

Felger, A. H. Wild Turkey (Meleagris gallopavo) [near Denver, Colo.] Auk Cambridge Mass. 26 1909 (191). 468

Felger, A. H. Annotated list of the water birds of Weld, Morg n and Adams counties, Colorado, south to the first sectional line below the fortieth parallel. Auk Cambridge Mass. 23 1909 (272-291) 3 maps. 469

Ornithologisches aus dem Feltgen. Jahre 1908. Luxemburg Bull. Mem. Soc. Nat. 1908 1909 (435-438).

[Fenenko, N. I.] Фененко, H. I. Aquila minuta Орелъ карликъ темный. [Aquila minuta.] Mater. faun. flor. Ross. Moskva 9 1909 (251-257).

Festa, E. Nel Darien e nell'Ecuador.
Diario di viaggio di un naturalista.
Torino [Unione Tip.-Editrice] 1909
8vo (xvi + 397).
472

Finch, W. C. Note on partial leucosis in a hen. Biometrika Cambridge 7 1909 (234–236).

Finley, William Lovell. American birds, studied and photographed from life. Illustrated from photographs by Herman T. Bohlman and the author. New York (Scribner) 1907 (xvi + 256).

Finley, W. L. Some bird accidents. Condor Hollywood Cal. 11 1909 (181-184) 3 figs. 475

Finn, F. The water fowl of India and Asia. 2nd ed. Calcutta (Thacker Spink) 1909 8vo (x +121). 476

Finn, F. Aviculture at the Zoo. Avicult. Mag. Brighton 7 1909 (249– 252 294–296 329–330 358). 477

Finn, F. A notable importation. Avicult. Mag. Brighton 7 1909 (362–363).

Finn, F. Stray notes on Indian Birds. Avicult. Mag. Brighton 7 1909 (263-267 299-301 331-332 352-356). 479

Finsch, O. Vogelarten welche sowohl in West Siberien als in Afrika beobachtet wurden. Aquila Budapest 16 1909 (lxxix-lxxxviii).

Fischer, Anton. Aus der Oberpfalz. Zs. Oologie Berlin 19 1909 (123-124).

481
Fischer-Sigwart, H. Das Rackelwild in der Schweiz. Ornith. Jahrb. Hallein 20 1909 (223–228). 482

Fischer-Sigwart, H. Das Leben der Stadtschwalbe Chelidon urbica Boie. Aus einem Manuscript: Bestand und Biologie unserer Vogelwelt zu Anfang des zwanzigsten Jahrhunderts. Aarau Mitt. Natf. Ges. 10 1905 (1-54). 483

Fischer-Siegwart, [H.]. Quelques raretés ornithologiques des environs de Zofingue. Arch. Sci. Phys. Genève 24 1907 (510-511); Verh. Schweiz. Natf. Ges. Aarau 90 1907 (73-74 97-98).

Fischer-Sigwart, H. Der Mäusebussard Buteo vulgaris Leach. Seine Biologie und Verbreitung in der Schweiz. Tierwelt Aarau 18 1908 (15-16 26-27 39-40 67 79-80 94-95 109-110 125 157 174-175 193-194 211-212). 485

Fischer-Sigwart, H. Der Schlangenadler und der Zwergadler und ihre Verbreitung in der Schweiz. Circaëtus gallicus Gm. und Aquila pennata Gm. Schweiz. Bl. Ornithol. Zürich 32 1908 (68 81 93-94 106-107).

F[ischer]-S[igwart], H. Anas boscas L. 1738, fälschlich boschas. Die Wildente. Die Stockente. Die Spiegelente. Schweiz. Bl. Ornithol. Zürich 32 1908 (425-426 439-441 451-452 466 477 500-501 513 526 538-539 561-562 573-574 585-586 596-597 621-622 633-635 647 659 671-673 684-686). 487

Fischer-Sigwart, H. Die Reiherkolonie bei Schötz in Kanton Luzern. Verh. Schweiz. Naturf. Ges. 92 pt. 1 1909 (229-232). 488

Fischer-Sigwart, H. Das Wauwylermoos als Nistgebiet des grossen Brachvogels, Numenius arcuatus L. (Grand Courlis). Verh. Schweiz. Naturf. Ges. 92 pt. 1 1909 (233–239); also Arch. Sci. Phys. Genève 28 1909 (497–499).

Fischer-Sigwart, H. Eine Invasion des Fichtenkreuzschnabels in der Schweiz im Jahre 1909. Verh. Schweiz Naturf. Ges. 92 pt. i 1909 (240–245); also Arch. Sci. Phys. Genève 28 1909 (495–496).

Fischer-Sigwart, H. Nistorte seltener Vögel in der Schweiz. Ornith. Beob. Bern 6 1908 (148-154). 491

Fisher, Walter T. vide Taylor, Thorne C.

Fletcher, Miss J. A. Bird notes and migration notes from Cleveland, Tasmania. Emu Melbourne 8 1909 (210-214 218) and 9 (79-83 95).

Vogelkunde. Bd 2: Die Forschungsergebnisse und Fortschritte der paläarktischen Ornithologie im Jahre 1908. (Kosmos-Jahrbücher.) Stuttgart (Kosmos) 1909 (130). 25 cm.

Floericke, Kurt. Die Kanarischen Inseln und ihre Vogelwelt. Stuttgart Jahreshefte Ver. Natk. 65 1909 (xlxliii). 494

Focke, W[ilhelm] O[lbers]. Dr. Gustav Hartlaub. Bremen Abh. natw. Ver. 19 1909 (485–508).

Foley vide Brumpt, E.

Forbes, H. O. The identity of certain large birds on Egyptian Vases. Nature London 82 1909 (38).

Forbin, V. L'oiseau-mouche dans son habitat. Nature Paris 37 1909 2° sem. (311-315). 497

Ford, H. W. Birds of Yackandandah Creek valley between Yackandandah and Kiewa, Victoria. Emu Melbourne 9 1909 (24-26). 498

Forel, F. A. Les mouettes du Léman. Lausanne Bul. Soc. Sci Nat. (5) 41 1905 (17–21). 499

Forel, F. A. Dénombrement des mouettes du Léman. Arch. Sci. Phys. Genève 24 1907 (511-512); Verh. Schweiz. Natf. Ges. Aarau 90 1907 (74 98-99).

Forrest, H. E. Nighting le breeding in Shropshire. Zoologist London 13 1909 (74-75). 501

Forrest, H. E. Smew in Montgomeryshire. Brit. Birds London 2 1939 (311).

Forrest, H. E. Lesser Spotted Woodpecker breeding, and Hoopoe occurring, in Merioneth. Brit. Birds London 2 1909 (343). 503

Forrest, H. E. Velvet Scoter in Shropshire. Brit. Birds London 2 1909 (345). 504

Forrest, H. E. Red variety (P. montana) of the Common Partridge. Brit. Birds London 2 1909 (345-346).

Forrest, H. E. Chaffinch breeding in winter. Brit. Birds London 2 1909 (381, 424). 506

Fortune, R. A birdland tragedy. Naturalist London 1909 (111-112). 507

Fortune, R. vide Walker, H.

Foster, N. H. Observations on the weights of Birds' eggs. Irish Nat. Dublin 1909 (216-219). 508

Fowler, W. W. Bonelli's Warbler in Switzerland. Zoologist London 13 1909 (241-244). 509

Fowler, W. W. Little Owl in northwest Oxfordshire.

2 1909 (280).

Brit. Birds London
510

Fox, R. H. Birds in "A guide to the Natural History of the Isle of Wight" edited by Frank Morey. (497-528) Newport 1909 8vo. 511 França, C. Le Professeur Barbosa du Bocage 1823-1907. Éloge historique prononcé à la séance solennelle on 2 Mai 1908. Lisbourne Bull. Soc. Port. Sc. Nat. 2 1908 (141-194) portrait. 512

Franz, Victor. Das Vogelauge. Zool. Jahrb. Jena Abt. f. Anat. 28 1909 (73-282) 5 Taf. 513

Franz, V. Versuch einer biologischen Würdigung des Vogelauges. Verh. D. zool. Ges. Leipzig 19 1909 (324–336).

Frenkel, B. Die Kleinhirnbahnen der Taube. Kraków Bull. Intern. Acad. 1909 No. 6 (123–147) pls. v-vii.

Friedrich, C. L. H. Die Vögel des Riesengebirges. Wanderer Hirschberg 11 1908 (118-119 129-132). 516

Friedrich, C. L. Harald. Die Vögel des Riesengebirges. [Forts.] Wanderer Hirschberg 12 1909 (19-21 35-37 116-119 130-132). 517

Fritsch, Ant[on] vide Šimek, [Miloš].

Froggatt, W. W. Die Frage des Vogelschutzes in Australien. Aquila Budapest 16 1909 (224–229). 518

Fulton, R. [Letter on 3 New Zealand Birds.] Ibis London 1909 (384-5).

Funccius, Theodor. Der Prothorax der Vögel und Säuger. (A. Fleischmann, Der Cervicothorax der Amnioten. I.) Morph. Jahrb. Leipzig 39 1909 (370-445) 3 Taf. 520

Gadeau de Kerville, Henri. Description et figuration de deux Mammifères et d'un Oiseau monstrueux (Agneau synote, Chevreau opodyme et Goëland polydactyle.) Rouen Bul. soc. amis sci. nat. 42 1907 (295–297). 521

Gadeau de Kerville, Henri. Note sur un œuf double de poule domestique. Rouen Bul. soc. amis sci. nat. 42 1907 (299-300). 522

Gadeau de Kerville, H. Notes sur les radiographies de huit vertébrés monstrueux (Faisandeau pelvadelphe, Poussin déradelphe, Poulet pelvadelphe, Canetons métopage et dérodyme). Rouen Bul. soc. amis sci. nat. 44 1909 (285-292) 6 pls. 523

Gadow, H. Through Southern Mexico, being an account of the travels of a naturalist, with over one hundred and sixty full page and other illustrations and maps. London 1908 8vo (xvi + 528). 524

Gaillard vide Lortet.

Gallenkamp, W. vide Parrot, C.

Galloway, A. R. Canary breeding. A partial analysis of records from 1891– 1909. Biometrika Cambridge 7 1909 (1-42) 5 pl. 525

Gantini, C. Sulle trasformazioni che subsice l'ovaio destro degli uccelli (Gallus) durante la vita embrionaria. Archivo ital. Anat. Embriol. Firenze 8 1909 (14-26). 526

Ganske, H. Wanderfalk und Waldkauz in einem Horste brütend. Zs. Oologie Berlin 19 1909 (73-75). 527

Gardner, J. A. vide Ellis.

 Garling, Max. Ornithologische Streifereien in der Mark. Gefied. Welt

 Magdeburg 38 1909 (11-12 20-21 27-29 35-36 43-44 52-54).
 528

Garvens-Garvensburg, Wolfgang von. Die Pelikaninsel auf dem Indian-River in Florida. Aus d. Natur Stuttgart 5 1909 (413-416). 529

Gechter, Heinrich. Beobachtete Vögel auf der hamburgischen Nordseeinsel Neuwerk mit Berücksichtigung der Witterungsverhältnisse. Ornith. Monatschr. Magdeburg 34 1909 (295–300 313–320 345–352). 530

Geisenheyner, L. Wirbelticrfauna von Kreuznach unter Berücksichtigung des ganzen Nahegebietes. Tl 3, 2. Hälfte: Vögel. (Wiss. Beil. z. Progr. d. kgl. Gymnasiums zu Kreuznach Ostern 1908.) Kreuznach (Druck v. F. Harrach) 1908 (59-109). 20 cm.

Gengler, J. Vogelwanderungen. Natur u. Offenb. Münster 55 1909 (616–621). 532

Gengler, J. Ornithologisches vom Vierwaldstätter See und von der Gotthardstrasse. Ornith. Jahrb. Hallein 20 1909 (24-46). 533

Gengler, J. und Kawelin, Eugen. Die Vögel von Koselsk und Umgebung. Ornith. Jahrb. Hallein 20 1909 (165–191). 534

Gengler, J. vide Parrot, C.

Gengler, J. vide Taschenberg, Otto.

[Gerasimov, D.] Герасимовъ, Д. О выводкѣ домашней итицы желаемаго пола. [Ueber die Aufzucht von Hausgeflügel von bestimmtem Geschlecht.] Solisk, choziain St. Peterburg 24 1909 (145–146).

Germain, R. et Oustalet, E. Catalogue des oiseaux de la Basse-Cochinchine. Paris Bul. soc. nat. acclim. 52 1905 (169-184); 54 1907 (43-51 83-86 148-154).

G. H. La Grue du Roi sur les bords du Léman. Feuille jeunes natural. Paris 39 1909 (232). 537

Ghidini, A. Il passo dei Crocieri nel Canton Ticino. Crocieri nell' Italia meridionale. Avicula Siena 12 1909 (96 97). 538

Ghidini, A. Saggio di una Bibliografia Ornitologica Ticinese (1905 incluso). Boll. Soc. Ticinese Sci. Nat. 3 1906 (92–101). 539

Ghigi, A. Richerche di sistematica sperimentale sul genere Gennaeus Wagler. Bologna Mem. Acc. Sc. 6 1909 (133-174) map and 2 pls. 540

Ghigi, Alessandro. Sul processo di mutazione nel *Gennaeus Swinhoii*. Monitore zool. ital. Firenze 20 1909. (95-96).

Giannelli, Luigi. Contributo allo studio dello sviluppo del panereas negli Uccelli. Archivio ital. Anat. Embriol. Firenze 7 1909 (533-577) 5 tav. 542

Giannelli, Luigi. Riccrche sullo sviluppo della milza nel pollo. Archivio ital. Anat. Embriol. Firenze 8 1909 (4-13). 543

Gibson, C. G. Birds observed between Kalgoorlie and Eucla, W.A. Emu Melbourne 9 1909 (71-77). 544

Gibson, R. E. The cotton teal (Nettapus coromandelianus) in Sind. Bombay J. Nat. Hist. Soc. 19 1909 (263-264).

Gifford, E. W. The Mourning Dove (Zenaidura carolinensis) in captivity. Condor Hollywood Cal. 11 1909 (84-85). 546

Giglioli, H. H. An ornithological coincidence, Nature London 80 1909 (188). 547

TITLES. 5800

Giles, G. W. Common Snipe (Gallinago coelestis) in Travancore in April. Bombay J. Nat. Hist. Soc. 19 1909 (749-750).

Gill, H. Albino snipe. Bombay J. Nat. Hist. Soc. 19 1909 (525). 549

"Gilman, M. F. Among the Thrashers in Arizona. Condor Hollywood Cal. 11 1909 (49-54). 550

Gilman, M. F. Some Owls along the Gila river in Arizona. Condor Hollywood Cal. 11 1909 (145-150) 5 figs.

Gilman, M. F. Nesting notes on the Lucy Warbler. Condor Hollywood Cal. 11 1909 (166-168). 552

Gilroy, N. Number of eggs laid by Terns. Brit. Birds London 3 1909 (129-130 222-223). 553

Gilroy, N. Notes on the nesting of the Goosander. Brit. Birds London 2 1909 (400-405). 554

Gladstone, H. S. Red Grouse and Black Grouse hybrids. Brit. Birds London 2 1909 (425).

Gladstone, H. S. The Woodcock. Dumfr'es Trans. Nat. Hist. Soc. 20 1909 (35-49) pl. 556

Glascock, L. C. Colour variety of India 1 house crow. Bombay J. Nat. Hist. Soc. 19 1909 (522). 557

Godman, F. du C. A monograph of the Petrels. (Order Tubinares.) Part IV 1909 (233-296) pls. lxviilxxxiv London 4to. 558

Goebel, H. Die Eier von Sterna fluviatilis und Sterna macrura Naum. Zs. Oologie Berlin 18 1908 (139–144).

Goebel, H. Ucber Schwarzdrosselcier. Zs. Oologie Berlin 18 1909 (195-196). 560

Goebel, H. Bestimmungstabelle für Eier von Chelidonaria urbica und Cotyle riparia, resp. Lanius excubitor und Lanius minor. Zs. Oologie Berlin 19 1909 (1-4 19-21). 561

Goebel, H. Sterna fluviatilis und macrura. [Eier.] Zs. Oologie Berlin 19 1909 (23-24). 562

Goebel, H. Vergleichende Massund Gewichtstabelle für Eier von Astur palumbarius und Aquila pennata s. minuta, Zs. Oologie Berlin 19 1909 (36-41). 563 Goebel, H. Ueber Eier von Anas boschas und Anas acuta. Zs. Oologie Berlin 19 1909 (83-87). 584

Goebel, H. Ucber Milvus milvusund M. korschun-eier. Zs. Oologie Berlin 19 1909 (113-114). 565

Goeldi, E. A. Galbalcyrhynchus purusianus and Pipra caelesti-pileata, a question of priority little to my taste. Bol. Mus. Goeldi Para 5 1909 (77-84 Portuguese 85-91 English)

Goeldi, E. A. Microtrogon, new generic name proposed for Trogon ramonianus Des Murs. Bol. Mus. Goeldi Para 5 1909 (92–93 Portuguese 94–95 English).

Goldschmidt, N. vide Werber, E. T.

Goodale, H. D. Sex and its relation to the barring factor in poultry. Science New York N.Y. 29 1909 (1004– 1005). 588

Gorka, Sándor. A madarak légzsákjainak élettani feladata. [Über die physiologische Aufgabe der Luftsäcke der Vögel.] Termt. Közl. Budapest 41 1909 (364–365). 569

Gould, F. H. C., Evans, W. and others. The irruption of Crossbills. Brit. Birds London 3 1909 (123–125).

Gounelle, E. Contribution à l'étude de la distribution géographique des Trochilidés dans le Brésil central et oriental. Ornis London 13 1909 (173– 183). 571

Gounelle, E. Description d'une nouvelle espèce de la famille des Trochilidae. Paris Rev. Fr. d'Orn. 1 1909 (17). 572

Grabham, O. Oystercatcher nesting at Spurn. Naturalist London 1909 (307-398) 2 figs. 573

Grabham, O. The colony of Little Terns at Spurn Point, Yorkshire. Brit. Birds London 2 1909 (317-321) pl. vii and 4 photographs. 574

Grandidier, G. Description d'un Oiseau nouveau (Monias Benschii E. O. et G. G.) de Madagascar. Paris C. R. Acad. sei. 149 1909 (1090–1092).

Grant vide Ogilvic-Grant.

Green, E. E. Mr. Drieberg's note on crows (ibid. p. 68). Spolia Zeylan. Colombo 5 pt. 18 1908 (103). 576 Green, E. E. Pugnacity of the drongo. Spolia Zeylan. Colombo 6 pt. 23 1909 (130-131). 577

Gregory, Mrs. A Stanley Crane. Avicult. Mag. Brighton 7 1909 (83-85).

Greppin, L. Versuch eines Beitrages zur Kenntnis der geistigen Fähigkeiten unserer einheimischen Vögel und Notizen über deren Verbreitung in der Umgebung Solothurns. Solothurn Mitt. Natf. Ges. 3 1906 (3-206). 579

Greppin, L. Versuch eines Beitrages zur Kenntnis der geistigen Fähigkeiten unserer einheimischen Vögel. Ornith. Beob. Bern 6 1908 (6-8 33-55 49-52 65-69 81-86 97-100 113-116 126-132 145-148 161-164).

Greschik, Jenő. Új adatok az erdei pinty táplálkozásához. [Neue Daten zur Nahrung des Buchfinken.] Aquila Budapest 15 1908 (310). 581

Greschik, E. Das massenhaftere Erscheinen der Kreuzschnäbel in Ungarn im Sommer 1909. Aquila Budapest 16 1909 (299–305). 582

Greschik, E. Ornithologisches aus der "Szepesseg". Aquila Budapest 16 1909 (305–306). 583

Grieg, James A. Storfuglens nuværende udbredelse i Söndre Bergenhus amt. [Jetzige Verbreitung der Waldhühner in S. Bergenhus Amt, Norwegen.] Bergens Mus. Aarb. 1909 No. 12 (12).

G[rieg] J. A. Rustanden. [Casarca casarca im Norwegischen.] Kristiania Norsk Jacgerf. Tidssk. 38 1909 (171–173).

Grimaldi, A. Crocieri in Calabria. Avicula Siena 12 1909 (97). 586

Grinnell, Joseph. The birds [Alexander expedition to Alaska]. Berkeley Univ. Cal. Pub. Zool. 5 1909 (181-244).

Grinnell, Joseph. Three new song sparrows from California. Berkeley Univ. Cal. Pub. Zool. 5 1909 (265–269).

588

Grinnell, Joseph. A new cowbird of the genus *Molothrus*, with a note on the probable genetic relationship of the North American forms. Berkeley Univ. Cal. Pub. Zool. 5 1909 (275-281). Grinnell, J. The Little Brown Crane in California. Condor Hollywood Cal. 11 1909 (128-129). 590

Grinnell, J. A collection of birds from Forty-mile, Yukon territory, Canada. Condor Hollywood Cal. 11 1909 (202-207). 591

Grinnell, J. A bibliography of California Ornithology. Pacific Coast Avifauna No. 5 Santa Clara Cal. 1909 (166) 8vo. 592

Gröbbels, Fr. Ueber Flug und Gesang von Alauda arvensis und Anthus trivialis. Ornith. Monatsber. Berlin 17 1909 (114–117). 593

Grober, J. Ueber Massenverhältnisse am Vogelherzen. Arch. gcs. Physiol. Bonn 125 1908 (507-521). 594

Grobler. [Kreuzung von Raben- u. Nebel-Krähe.] Wild u. Hund Berlin 15 1909 (501). 595

Gromier. Le Loriot (Oriolus oriolus). Paris Rev. Fr. d'Orn. 1 1909 (66-72) 596

Gross vide Grützner.

Grosser, O. und Tandler, J. Normentafel zur Entwicklungsgeschichte des Kiebitzes (Vanellus cristatus Meyer). (Normentafeln zur Entwicklungsgeschichte der Wirbeltiere. Hrsg. v. F. Keibel. H. 9.) Jena (G. Fischer) 1909 (vi + 58) 3 Taf. 36 cm.

Grossmann. Weitere biologische Beobachtungen über den Sommerhabicht (Astur brevipes Sev.) aus der Bocche di Cattaro. Ornith. Jahrb. Hallein 20 1909 (218–223).

Grote, Georg August. Zuchtwahl und Eiproduktion. Zs. Oologie Berlin 19 1909 (49-51 65-68). 599

Grote, Herrmann. Briefliche Berichte aus Ostafrika. Ornith. Monatsber. Berlin 17 1909 (21-24). 600

Grote, Hermann. Briefliches aus Ostafrika. II. Ornith. Monatsber. Berlin 17 1909 (103–106). 601

Grote Hermann. Ornithologische Skizzen vom unteren Rovuma. Ornith. Monatsber. Berlin 17 1909 (147-149). 602

Grote, Hermann. Oologische Notizen aus Ostafrika. Zs. Oologie Berlin 19 1909 (70-71). 603 Grützner, H. Der Specht im Schilfwalde. Ornith. Monatsber. Magdeburg 34 1909 (246-247).—Bemerkung dazu v Gross, t.c. (306). 604

Gunning, J. W. B. Description of two new species of birds in the Transvaal Museum. Ann. Transvaal Mus. Pretoria 1 1909 (173-174). 605

Gunning, J. W. B. On a new species of Cossypha from West Pondoland. Ann. Transvaal Mus. Pretoria 1 1909 (174).

Gurney, G. H. Notes on a collection of birds made in British East Africa. Ibis London 1909 (484-532). 607

Gurney, G. H. Natural History experiences in British East Africa. Norwich Trans. Nat. Soc. 8 1909 (696– 726). 608

Gurney, G. H. Some short notes on Centropus superciliosus in captivity. Avicult. Mag. Brighton 7 1909 (119– 122) 1 text-fig. 609

Gurney, G. H. and Butler, A. G. The Blackwinged Hangnest (Icterus giraudi). Avicult. Mag. Brighton 7 1909 (196).

Gurney, J. H. Ornithological Report for Norfolk (1908). Zoologist London 13 1909 (121–138) pl. ii. 611

Gurney, J. H. and Southwell, T. Fauna and Flora of Norfolk. Additions to Part XI. Birds. (Fifth List). Norwich Trans. Nat. Soc. 8 1909 (847-851).

Guyer, Michael F. The spermatogenesis of the domestic guinea-fowl. (Numida meleagris dom.) Anat. Anz. Jena 84 1909 (502-513) 2 Taf. 613

Guyer, Michael F. The spermatogenesis of the domestic chicken (Gallus gallus dom.). Anat. Anz. Jena 34 1909 (573-580) 2 Taf. 614

Guyer, Michael F. Sur le sexe des hybrides dans la famille des *Pha-sianidae*. Paris C. R. soc. biol. 65 1908 (642-644). 615

Guyer, F. La livrée du plumage chez les hybrides de pintade et de poule. Bul. muséum Paris 1909 (3-6). 616

Haag, Ferd. Ueber die Elfenbeinmöve (*Pagophila eburnea*). Zs. Oologie Berlin 18 1909 (137–139 163–164). Haag, Ferd. Ei-Missbildungen. Ornith. Monatsber. Berlin 19 1909 (43-44). 618

Haag, F. Plattschnäbliger Wassertreter (*Phalaropus fulicarius* L.). Zs. Oologie Berlin **19** 1909 (102–104).

Haagner, A. A note on the blackfaced love-bird (Agapornis nigrigenis). Pretoria J. S. Afric. Ornith. Union 5 1909 (16-18) pl. i. 620

Haagner, A. Miscellaneous notes. Pretoria J. S. Afric. ornith. Union 5 1909 (87-90). 621

Haagner, A. Descriptions of two new species of Flycatchers from Portuguese South-cast Africa. Ann. Transvaal Mus. Pretoria 1 1909 (179-180).

Haagner, A. Description of a new Warbler of the genus *Cisticola*. Ann. Transvaal Mus. Pretoria 1 1909 (197). 623

Haagner, A. K. A revision of the South African species of *Cisticola* (GrassWarblers). Ann. Transvaal Mus. Pretoria 1 1909 (227-232). 624

Haagner, A. Descriptions of two new species of birds from the Boror District of Portuguese East Africa. Ann. Transvaal Mus. Pretoria 1 1909 (233-234).

Haas, Fritz. Die Vogelfauna des Talküstensees (Württ.). Zool. Beob. Frankfurt a.M. 50 1909 (24–25). 626

Haase, O. Besøg hos stortrapperne. [A visit to Otis tarda.] Kjöbenhavn Ornith. Tids. 3 1909 (55-60). 627

Hadley, P. B. Notes on the behavior of the Domestic Fowl. Amer. Nat. Boston Mass. 43 1909 (669-676) 1 fg.

Hadley, P. B. Studies in Avian coccidosis. I. White diarrhea of chicks. II. Roup of fowls. Centralbl. Bakt. Jena Abt. 1 50 1909 (348–353).

Hadley, P. B. Regarding the value of the Van Gieson and the Romanowsky malarial stains for the detection of Coccidia. Centralbl. Bakt. Jena Abt. 1 52 1909 (147-150). 630

Hagen, Werner. Die Brandgans als Brutvogel des lübeckischen Gebietes. Ornith. Monatsber, Berlin 17 1909 (109– 110). 631 Hagen, Werner. Von der "Versenkungsbefähigung" der Schwimmvögel. Ornith. Monatsber. Berlin 17 1909 (110-111).

Hagen, W. Die Nachtschwalbe (Caprimulgus europaeus) in der Umgeb. von Lübeck. Ornith. Monatschr. Magdeburg 34 1909 (194-196). 633

Hagen, Werner. Erithacus cyaneculus (Wolf) in Lübecks Umgebung. Ornith. Monatschr. Magdeburg 34 1909 (432-434).

Hagen, W. Die bei Lübeck beobachteten Anthus-Arten. Güstrov Arch. Ver. Natg. 63 1909 (112–116). 635

Hagendefeld', M. Zum Vogelzug auf der Insel Sylt. [1906.] Ornith. Monatsber. Berlin 17 1909 (161-165).

Hagendefeldt, M. Seltene Beobachtungen von Sylt. Ornith. Monatschr. Magdeburg 34 1909 (459). 637

Hahn, Hermann. Experimentelle Studien über die Entstehung des Blutes und der ersten Gefässe beim Hühnehen. I. Teil. Intraembryonale Gefässe. Arch. EntwMech. Leipzig 27 1909 (337–433) 3 Taf. 638

Hahn, W. L. Bird Notes. Amer. Midl. Nat. Notre Dame Ind. 1 1909 (118-120). 639

Hall, H. vide Kempsey.

Hall, R. Notes on the migration of Apus (Micropus) pacificus, Lath. Emu Melbourne 8 1909 (148-149) pl. xiii. 640

Hall, R. Notes on the Magpie (Gymnorhina leuconota). Emu Melbourne 9 1909 (16-21). 641

Hall, R. Variation in Trichoglossus, Vig. and Hors. Emu Melbourne 9 1903 73-74). 642

Hall R. Notes on Ducks. Emu Melbourne 9 1909 (77-79). 643

Hallgren, C. A. Om kornsparfven. [On the corn-bunting.] Fauna och Flora Uppsala 3 1908 (40-42). 644

Hamilton, A. Handlist of the birds inhabiting New Zealand and those birds from other countries that have been observed in New Zealand as occasional visitors. Wellington Dominion Museum (Govt, Printer) 1909 8vo. (19).

Hamilton, J. S. Observations on migratory birds at Komatipoort. Pretoria J. S. Afric. ornith. Union 5 1909 (19-22).

Hamilton, J. S. Notes upon some South African birds observed during a journey through Portuguese Nyassaland. Pretoria J. S. Afric. ornith. Union 5 1909 (72-80).

Hammling, Julius. Nachtigall und Sprosser. Ornithologische Beobachtungen aus der Umgegend von Posen. Ornith. Monatsber. Berlin 17 1909 (129-138).

Hanitsch, R. Guide to the Zoological Collections of the Raffles Museum, Singapore. With 21 plates. Singapore 1908 (1-112) [Birds pp. 15-35 pls. ix-xiii]. 649

Hankó, Béla. Keresztesőrű hamvas varjú. [Kreuzschnabelige Nebelkrähe.] Pótf. Termt. Közl. Budapcst 41 1909 (75-76).

Hankó, Béla. Adatok a madarak Fabricius-féle mirigyének alak- és élettanához. [Beiträge zur Morphologie und Physiologie der Bursa Fabricii der Vögel.] Állatt. Közl. Budapest 8 1909 (74–82 111–119). 651

Hanna, W. C. The White-throated Swifts on Slover Mountain [California]; with one photo. Condor Hollywood Cal. 11 1909 (77-81). 652

Hantzsch, B. Masse und Gewichte von Jagdfalkeneiern aus Island. Falco Halle 5 1909 (4-5). 653

Hardy, John H., jun. Capture of the European Widgeon (Marcca penelope) in New Hampshire. Auk Cambridge Mass. 26 1909 (304). 654

Hardy, John H., jun. vide Townsend, Charles W.

Harlow, R. C. The Little Blue Heron in New Jersey. Auk Cambridge Mass. 26 1909 (189-190). 655

Harlow, R. C. The Yellow Rail at Salem, New Jersey. Auk Cambridge Mass. 26 1909 (190). 656

Harlow, Richard C. Breeding of the Louisiana Water-Thrush (Seiurus motacilla) in Philadelphia. Auk Cambridge Mass. 26 1909 (195-196), 657 Harlow, Richard C. Wilson's Snipe (Gallinago delicata) wintering in Pennsylvania. Auk Cambridge Mass. 26 1909 (305).

Harlow, Richard C. The Lesser Yellow-legs (*Totanus flavipes*) in Center county, Pennsylvania. Auk Cambridge Mass. 26 1909 (305). 659

Härms, H. Motacilla flava raddei subsp. nov. Ornith. Monatsber. Berlin 17 1909 (2). 660

Härms, M. Emberiza schoeniclus zarudnyi subsp. nov. Ornith. Monatsber. Berlin 17 1909 (1-2). 661

Härms, M. vide Buturlin, S. A.

Harper, E. W. The Verditer Flycatcher. (Stoparola melanops.) Avicult. Mag. Brighton 7 1909 (277-279) coloured plate. 662

Harrington, H. H. The birds of Burma. Rangoon (Gazette Press) 1909 8vo (viii + 134) [cf. Ibis 1909 p. 703]. 663

Harrington, H. H. A list of the birds of the Bhamo district, Upper Burma. Bombay J. Nat. Hist. Soc. 19 1909 (107-128 299-313). 664

Harrington, H. H. Some Rangoon Birds. Bombay J. Nat. Hist. Soc. 19 1909 (358-366). 665

Harris, J. A. A note of the Prairiedog Owl, which resembles the rattle snake's rattle. Amer. Nat. Boston Mass. 43 1909 (754-755). 666

Hartert, Ernst. Die Vögel der paläarktischen Fauna. Systematische Uebersicht der in Europa, Nord-Asien und der Mittelmeerregion vorkommenden Vögel. H. 5. Berlin (R. Friedländer & S.) 1909 (513–640). 25 cm. 667

Hartert, Ernst. Über eine neue Form von *Pteroclurus exustus*. Ornith. Monatsber. Berlin 17 1909 (183). 668

Hartert, Ernst. Einige Steinschmätzerformen. Falco Halle 5 1909 (33-36).

Hartert, E. On some recently discovered African birds. Nov. Zool. Tring 16 1909 (333-335) pls. 14 15.

Hartert, E. [The resident British race of the Song-Thrush.] London Bull. Brit. Ornith. Cl. 23 1909 (54-55); also Brit. Birds London 2 1909 (340-342). 671

Hartert, E. [Descriptions of new birds.] London Bull. Brit. Ornith. Cl. 25 1909 (9-10). 672

Hartert, E. [A pus and ecolus dinellii, a correction.] London Bull. Brit. Ornith. Cl. 25 1909 (16).

Hartert, E. Tarsiger indicus formosanus subsp. nov. London Bull. Brit. Ornith. Cl. 25 1909 (32-33).

Hartert, E. and Venturi, S. Notes sur les oiseaux de la République Argentine. Nov. Zool. Tring 16 1909 (159-267) pls. 2 3. 675

Hartley, E. A. H. Peculiar coloration in a Lovebird. Avicult. Mag. Brighton 7 1909 (175). 676

Haughton, W. H. [Migration of Swallows, etc., in the Red Sea.] Ibis London 1909 (189-190). 677

Hautefeuille. Entérite vermineuse épidémique des Pigeons. Amiens Bul. soe. linn. 19 1908-9 (429-431). 678

Headley, F. W. The meaning of birds' songs. Brit. Birds London 3 1909 (221).

Heathcote, W. H. vide Charnley, J. R.

Hedin, N. Fra Anholt. [From Anholt Island.] Kjöbenhavn Ornith. Tids. 4 1909 (21-23). 680

Hegyfoky, J. Der Vogelzug und die Witterung im Frühling des Jahres 1908. Aquila Budapest 16 1909 (129-138). 681

Heilmann, G. Darwin som ornitolog. [Darwin as an ornithologist.] Kjöbenhavn Ornith. Tids. 3 1909 (61-67). 682

Heinroth, M. Ein Zuchtversuch mit dem Heuschreckensänger, Locustella naevia (Bodd.). Gefied. Welt Magdeburg 38 1909 (313-315 321-322 329-330 337-338). 683

Heinroth, O. Beobachtungen bei der Zucht des Ziegenmelkers (Caprimulgus europaeus L.). J. Ornith. Leipzig 57 1909 (56-83) 4 Taf. 684

Heinroth, O. Ein lateral hermaphroditisch gefärbter Gimpel. (*Pyrrhula pyrrhula europaea* Vieill.) Berlin SitzBer. Ges. natf. Freunde 1909 (328-330).

Held, H. Untersuchungen über den feineren Bau des Ohrlabyrinthes der Wirbeltiere. ii. Zur Entwicklungsgeschichte des Cortischen Organs und der Macula acustica bei Säugetieren und Vögeln. Leipzig Abh. Ges. Wiss. 31 1909 (193-294) Taf. 1-18. 686

Hellmayr, C. E. Aves für 1906. [Jahresbericht.] Arch. Natg. Berlin 73 Bd 2 H. 1 1907 [1909] II (1-144). 687

Hellmayr, C. E. Description d'une nouvelle espèce du genre *Calospiza*. Paris Rev. Fr. d'Orn. 1 1909 (49-50).

Hellmayr, C. E. Notes sur quelques oiseaux de l'Amérique tropicale. i. Description d'une nouvelle espèce de Fourmilier. [Formicivora iheringi]. ii. Sur une nouvelle espèce de Picucule [Hylexetastes uniformis]. Paris Rev. Fr. d'Orn. 1 1909 (98-101).

Hellmayr, C. E. [Three new species and subspecies.] London Bull. Brit. Ornith. Cl. 23 1909 (65-67). 690

Hellmayr, C. E. [Bucco noanamae sp. nov.] London Bull. Brit. Ornith. Cl. 25 1909 (21-22). 691

Hellmayr, C. E. vide Lorenz, L. v.

Helm, F. Ornithologische Beobachtungen in und bei Chemnitz. Chemnitz Ber. natw. Ges. 17 (1907-09) 1909 (108-123).

Helms, O. i København. [Migration of Larus ridibundus at Copenhagen.] København Ornith. Tids. 3 1909 (141-144).

Helms, O. Alexander Kielland og fuglene. [Alexander Kielland and the birds.] Kjöbenhavn Ornith. Tids. 4 1909 (16-20). 694

Henderson, J. An annotated list of the birds of Boulder country, Colorado. Boulder Univ. Colo. Stud. 6 1909 (219– 242). 695

Henderson, J. T. Brambling in West Sutherland. Ann. Scot. Nat. Hist. Edinburgh 1909 (47-48). 696

Hennemann, W. Ornithologische Beobachtungen im Sauerlande im Jahre 1907. Ornith. Jahrb. Hallein 20 1909 (46-58).

Hennemann, W. Ornithologisches von Föhr 1908. Ornith. Monatschr. Magdeburg 34 1909 (74-77). 698 Hennemann, W. Ornithologische Beobachtungen im Sauerlande im Jahre 1907. [Aus: Ornith. Jahrb., Hallein.] Münster Jahresber. ProvVer. Wiss. 37 (1908-09) 1909 (41-50).

Hennemann, W. Eine späte Brut der Gartengrasmücke (Sylvia simplex Lath.). Ornith. Monatschr. Magdeburg 34 1909 (441). 700

Hennemann, W. und Lindner, Fr. [Auffallend frühe Ankunft der Turmsegler 1909.] Ornith. Monatschr. Magdeburg 34 1909 (277).

Hennicke, Carl R. Ueber die Raubseeschwalbe, Sterna tschegrava Lepech, Ein Naturdenkmal auf der Insel Sylt. Ornith. Monatschr. Magdeburg 34 1909 (198-199) 2 Taf.

Hennicke, Carl R. Der Wasserstar. Ornith. Monatschr. Magdeburg 34 1909 (271-272) 1 Taf. 703

Hennicke, Carl R. Der Kormoran. Natur u. Haus Stuttgart 17 1909 (119-123). 704

Henninger, W. F. The American Golden Plover (Charadrius dominicus) in Ohio in autumn. Auk Cambridge Mass. 26 1909 (77).

Henninger, W. F. Another Ohio record for *Oidemia deglandi*. Auk Cambridge Mass. 26 1909 (189). 706

Henninger, W. F. Spring migration in middle western Ohio. Wilson Bull. Oberlin Ohio 21 1909 (99-102). 707

Henninger, W. F. Abnormal coloration of the Scaup Duck. Wilson Bull. Oberlin Ohio 21 1909 (102). 708

Henninger, W. F. Bird notes from middle western Ohio. Wilson Bull. Oberlin Ohio 21 1909 (219-221).

Henninger, W. F. and Jones, L. The Falcones of North America. Wilson Bulletin Oberlin Ohio 21 1909 (77-94 205-218).

Henry, G. Notes sur des poussins de trois espèces d'astrilds nés en captivité. Paris Rev. Fr. d'Orn. 1 1909 (13-15). 711

Henry, G. Note sur la caille naine de Chine (Excalfactoria chinensis). Priorité en faveur de la France de sa reproduction en captivité. Paris Rev. Fr. d'Orn. 1 1909 (43-45). Herlofson, N. B. Fasaner og rovfuglfangst. [Fasanen im Drontheimischen Norwegen.] Kristiania Norsk Jægerf. Tidssk. 38 1909 (42-46). 713

Herman, O. Eine Skizze der Tätigkeit der königlich Ungarischen Ornithologischen Centrale. Aquila Budapest 16 1909 (i-xlvii) Tab. A-D. 714

Herman, O. In Mcmoriam. The correspondence between Alfred Newton and Otto Herman. Aquila Budapest 16 1909 (xlviii-lxxviii). 715

Herman, O. and Owen, J. A. Birds useful and birds harmful. Illustrated by T. Coörgey. Manchester (University Press) (viii + 388) many illustr. 1909 8vo. 716

Herrick, Harold. Late flight of Woodcock (*Philohela minor*) on Long Island, N.Y. Auk Cambridge Mass. 26 1909 (77). 717

Hersey, L. T. and Rockwell, R. B. An annotated list of the birds of the Barr Lake district, Adams county, Colorado. Condor Hollywood Cal. 11 1909 (109-122) 6 figs. 718

Hesse, E. Beobachtungen und Aufzeichnungen in der Umgegend von Leipzig während des Jahres 1907. J. Ornith. Leipzig 57 1909 (1-32). 719

Hesse, Erich. Beobachtungen und Aufzeichnungen in der Umgegend von Leipzig während des Jahres 1908. J. Ornith. Leipzig 57 1909 (322-365).

Hewitt, C. G. An inquiry into the feeding habits of British Birds. London Rep. Brit. Ass. 1908 1909 (734-735).

Heyder, R. Sommerbeobachtungen an den Teichen von Wermsdorf, Kgr. Sachsen. Ornith. Monatschr. Magdeburg 34 1909 (281-287). 722

Heyder, Richard. Weitere ornithologische Beobachtungen an den Teichen bei Wermsdorf: Ornith. Monatschr. Magdeburg 34 1909 (424-428). 723

Heyder, Rich. vide Zimmermann,

Hilgert, Carl. Avifauna von Ingelheim a. Rhein. (Forts.) Falco Halle 5 1909 (46-48 49-53). 724

Hill, G. F. Birds of Inverloch (Vic.). Emu Melbourne 8 1909 (221-223). 725 Hocke, H. Dr. Karl August Bolle. Zs. Oologie Berlin 18 1909 (196). 726

H[ocke], H. M. Kuschel. Zs. Oologie Berlin 19 1909 (17–18). 727

Hocke, H. Ueber Saatkrähen in Brandenburg. Zs. Oologie Berlin 19 1909 (26-29 41-42). 728

Hocke, H. Über Trappen, Otis tarda L. in Brandenburg. Zs. Oologie Berlin 19 1909 (104-107 119-120). 729

Hocke, H. Der Abendfalke Cerchneis vespertina (L.). D. Jägerztg. Neudamm 53 1909 (827–830 844–845); Bemerkung dazu v. O. Bauer. t.c. 54 1909 (56–57). 730

Hocke, H. Ueber die Wanderungen unserer Wildtauben. Natur u. Haus Stuttgart 17 1909 (378-380). 731

Hocke, H. Ueber die Drosseln Brandenburgs. Gefied. Welt Magdeburg 38 1909 (196-197 204-205). 782

Hocke, H. Ueber den Heuschreckensänger, Locustella naevia (Bodd.). Gefied. Welt Magdeburg 38 1909 (265-266).

Hoffmann, Kurt Otto. Ornithologische Reiseerinnerungen aus den baltischen Provinzen Russlands. Ornith. Monatschr. Magdeburg 34 1909 (331– 335). 734

Hofstetter, Chr. Der Herbstzug der Vögel im bernischen Emmental im Jahr 1906. Ornith. Beob. Bern 6 1908 (138-142). 735

Holden, R. A. Nesting of the Spotted-backed Weaver. (Hyphantornis spilonotus.) Avicult. Mag. Brighton 1 1909 (33-35). 736

Home, W. M. L. Pintail (Dafila acuta) in Baltistan in July. Bombay J. Nat. Hist. Soc. 19 1909 (750). 737

Hope, L. E. Roller in Cumberland. Zoologist London 13 1909 (156). 738

Hope, L. E. and Thorpe, D. L. The Bean Goose on the Solway. Zoologist London 13 1909 (350-352). 739

Hope, L. E. vide Thorpe.

Hopf. Etwas vom Anpassungsvermögen von Specht und Würger. Aus d. Natur Stuttgart 4 1909 (765–766).

Höpfner, M. vide Seeger.

Hopwood, J. C. Occurrence of the Spoonbill (Platalea leucordia) in Lower Burma. Bombay J. Nat. Hist. Soc. 19 1909 (261). 741

Horn, A. vide Sassi, Moriz.

Hornaday, W. T. Camp-fires on desert and lava. With 72 illustrations, etc., by Godfrey Sykes. [Chapter on birds of north-west Sonora, Mexico, pp. 316-328.] London (Laurie) (xx+366) [1908] 8vo. 742

Horsbrugh, B. R. Birds of a Bloemfontein Garden. Avicult. Mag. Brighton 7 1909 (244-246). 743

Horsbrugh, B. R. Levaillant's Barbet (Trachyphonus cafer). Avieult. Mag. Brighton 7 1909 (337-338) coloured plate. 744

Horsbrugh, C. B. A journey to British New Guinea in search of Birdsof-Paradise. Ibis London 1909 (197-213). 745

Horsfall, Bruce. European Starling nesting at Princeton, New Jersey. Auk Cambridge Mass. 26 1909 (430).

Horwood, A. R. Variation in birds' eggs. Selbourne Mag. London 20 1909 (102-105 113-115 133-138 153-157).

Horwood, A. R. Moral superiority among Birds. Nature London 80 1909 (40). 748

Horwood, A. R. Variation in birds' eggs. Selbourne Mag. London 20 1909 (102-105 113-115 133-138 153-157.

Howard, H. E. The British Warblers. A history with problems of their lives. Parts 3 4 [separate paging to each species and many plates and photogravures] London large 8vo 1909.

Howarth, E. Sale of Great Auk's Egg. London Mus. J. 8 1909 (293).

Howe, F. E. Among the birds of north-western Victoria. Emu Melbourne 8 1909 (130-138). 752

Howe, F. E. The Pilot bird (Pycnoptilus floccosus). Emu Melbourne 9 1909 (41-43). 753

Howe, Reginald Heber, jun. A curious influx of southern herons to New Jersey. Auk Cambridge Mass. 26 1909 (76). 754

Howell, Arthur H. Agelaius phaniceus fortis in Louisiana. Auk Cambridge Mass. 26 1909 (192). 755

Howell, Arthur H. Notes on the summer birds of northern Georgia. Auk Cambridge Mass. 26 1909 (129– 137). 756

Höyberg, H. M. Untersuchungen über die Immunität der Vögel gegen die Muskeltrichinose. Zs. Thiermed. Jena 12 1908 (26-33).

Hugues, A. Nidification du Roitelet huppé dans le Gard. Nimes Bul. soc. étud. sci. nat. 34 1907 (19-20), 758

Hugues, A. Le jeûne ehez le Martinet. Nimes Bul. soc. étud. sci. nat. 35 1908 (74-75). 759

Hugues, A. Couleur des yeux d'Oiseaux Albinos. Nimes Bul. soc. étud. sci. nat. 35 1908 (75-76). 760

Hunter, W. The Lapwing. Dumfrics Trans. Nat. Hist. Soc. 20 1909 (185-199). 761

Hvivensalo, K. J. Krähe aus Vogelwarte Rositten, in Finland getötet. (Fin.) Luonnon Ystävä Helsingfors 11 1907 (136). 762

Ibarth. Serinus serinus bei Danzig. Ornith. Monatsber. Berlin 17 1909 (4-5).

stade der Danziger Bucht, Ornith. Monatsber. Berlin 17 1909 (43).

[Iljinskij, P.] Ильинскій, П. О пролеть саджи. [Ueber den Durchzug des Steppenhuhns.] Ochotn gaz. St. Peterburg 35 1909 (359). 765

Imparati, E. Uccelli del Ravennatc. Avicula Siena 12 1909 (49-60 73-87 105-115). 766

Ingersoll, A. M. The only known breeding ground of *Creciscus coturniculus*. Condor Hollywood Cal. 11 1909 (123–127) 2 figs. 767

Inglis, Chas. M. Note on the slatyblue flycatcher (Cyornis leucomelanarus) and the common rubythroat (Calliope camtschatkensis in Tirhut. Bombay J. Nat. Hist. Soc. 19 1909 (259). 768

Inglis, Chas. M. Occurrence of the peewit (Vanellus vulgaris) in Tirhut. Bombay J. Nat. Hist. Soc. 19 1909 (262).

Inglis, Chas. M. On the occurrence of certain birds in the Darbhanga district, Tirhut. Bombay J. Nat. Hist. Soc. 19 1909 (522).

Inglis, C. M. vide Ogilvie-Grant, W. R.

Ingram, C. The birds of Manchuria. Ibis London 1909 (422-469) pl. viii (map). 771

Ingram, C. Supplementary list of the birds of the Alexandra District, Northern Territory, S. Australia. Ibis London 1909 (613-618). 772

Ingram, C. [On a new species of Hemipode.] London Bull. Brit. Ornith. Cl. 23 1909 (65). 773

Ingram, C. [On a new subspecies of *Pnoëpyga*.] London Bull. Brit. Ornith. Cl. 23 1909 (96-97).

Ingram, C. My Japanese Rose-Finches (*Uragus sanguinolentus*). Avicult. Mag. Brighton 7 1909 (241-243). 775

Ingram, C. Red variety (P. montana) of the Common Partridge. Brit. Birds London 2 1909 (311-312).

Israël, Wilhelm. Der Specht im Schilfwalde. Ornith. Monatschr. Magdeburg 34 1909 (28-30) 1 Taf. 777

Iverson, W. Mönchsgrasmücken überwintern zuweilen im südlichen Norwegen. 38 1909 (7). Gefied. Welt Magdeburg 778

J[acob], J. R. Notes on birds of the neighbourhood [of Clifton] from Sept., 1908-Sept. 1909. Clifton Coll. Rep. Sci. Soc. 1 1909 (22-23). 779

Jacobi, A. Ein Vorkommen des Bergrebhuhns Perdix perdix var. montana Briss. Ornith. Monatsber. Berlin 17 1909 (50-52). 780

Jackson, S. W. In the Barron river valley, North Queensland. Field observations in the Tinaroo and Atherton scrubs with photographs by the author. Emu Melbourne 8 1909 (233-283) pls. xx-xl.

Jackson, S. W. Descriptions of nests and eggs of five species of birds found in the Atherton district, North Queensland. Emu Melbourne 8 1909 (283-285).

Jackson, S. W. Description of the nest and eggs of the White-bellied (N-11091 g)

Thickhead (Pachycephala lanioides). Emu Melbourne 9 1909 (106) pl. vii.

Jardine, E. R. Occurrence of the pink-headed duck (Rhodonessa caryophyllacea) in Burma. Bombay J. Nat. Hist. Soc. 19 1909 (264).

Jewett, Stanley G. Some birds of Baker county, Oregon. Auk Cambridge Mass. 26 1909 (5-9). 785

[Johansen, G. E.] Іоганаент, Г. Э. Птицы Оемпричня и Турксстана. [Die Vögel des Semiretschje und des Turkestans.] Tomsk Izv. Univ. 22 1909 (1-36) 2 Taf.

Johansen, Herm. Vollständiger Albino von Scolopax gallinago Linn. Ornith. Monatsber. Berlin 17 1909 (138). 787

Johansen, Herm. Eine albinotische Krickente. Ornith. Monatsber. Berlin 17 1909 (139). 788

Johansen, Herm. Partieller Albinismus bei *Pyrrhula*. Ornith. Monatsber. Berlin 17 1909 (140). 789

Johns, C. A. British Birds in their haunts. Edited, revised and annotated by J. A. Owen. Illustrated with 64 coloured plates (256 figures) by W. Foster. (xxv + 326) London 1909 8vo.

Johnson, W. The Wood-cock. Selbourne Mag. London 20 1909 (13-16). 791

Johnston, J. H. New genus (Clelandia) of bird-cestodes. Sydney N.S.W. J. R. Soc. 43 1909 (139-147) figs. 792

Johnston, T. H. vide Cleland, J. B.

Jolly, J. Sur une dispostion spéciale de la structure de ganglions lymphatiques chez les oiseaux. Paris C. R. soc. biol. 66 1909 (499-502). 793

Jolly, J. Sur le développement des ganglions lymphatiques du canard. Paris C. R. soc. biol. 67 1909 (684-686).

Jolly, J. Sur le tissu lymphoïde des oiseaux. C. R. ass. anat. Paris 10 Marseille 1908 Paris 1908 (176-182)

Jones, F. W. The fauna of the Cocos-Keeling Atoll, collected by F. Wood Jones. London Proc. Zool. Soc. 1909 (132-160). Jones, H. On the eclipse plumage of the female New Zealand Sheldrake. (Casarca variegata). Avicult. Mag. Brighton 1 1909 (61).

Jones, K. H. Notes on some birds observed on the Trans-Siberian Railway Line. Ibis London 1909 (406-413),

Jones, L. June with the birds of the Washington Coast. Wilson Bull. Oberlin Ohio 21 1909 (1-15) 11 illustra.

Jones, L. The birds of Cedar Point and vicinity. Wilson Bull. Oberlin Ohio 21 1909 (55-76 115-131 187-204) 2 maps 9 figs. 800

Jones, L. New records for middle northern Ohio. Wilson Bull. Oberlin Ohio 21 1909 (158-160). 801

Jones, L. vide Henninger, W. F.

Jordans, Ad. von. [Aberrant gefärbte Rauchschwalbe.] Ornith. Monatsber. Berlin 17 1909 (5). 802

Jourdain, F. C. R. The eggs of European Birds. Pt. 3 (161-240) 13 plates. London 1909 8vo. 803

Jourdain, F. C. R. [Eggs of Larus audouini.] London Bull. Brit. Ornith. Cl. 25 1903 (39-40). 804

Jourdain, F. C. R. Death of Dr. E. Rey. Brit. Birds London 3 1909 (202-203).

Jourdain, F. C. R. Rough notes on Derbyshire Natural History. Zoologist London 13 1909 (106-112). 806

Jourdain, F. C. R. Weitere Beiträge zur Kenntnis der Eier von Larus audouini Payraud. Ornith. Jahrb. Hallein 20 1909 (139-143). 807

Jourdain, F. C. R. and Read, R. H. [Birds' eggs from Corsica.] London Bull. Brit. Ornith. Cl. 25 1909 (22-23).

Judd, Sylvester D. Birds of a Maryland farm; a local study of economic ornithology. Washington D.C. Bull. U. S. Dept. Agric. Div. Biol. Surv. No. 17 1902 (1-116) pl. 809

Judd, Sylvester D. The bobwhite and other quails of the United States in their economic relations. Washington D.C. U. S. Dept. Agric. Biol. Surv. Bull. No. 21 1905 (1-66) pl. 810

Judd, Sylvester D. The grouse and wild turkeys of the United States

and their economic value. Washington D.C. U. S. Dept. Agric. Biol. Surv. Bull. No. 24 1905 (1-55) pl. 811

Jukes, J. E. C. On the existing "close time" for birds and animals in the Bombay Presidency. Bombay J. Nat. Hist. Soc. 19 (216-219). 812

Julius, V. A. Habits of babblers (Crateropus striatus). Spolia Zeylan. Colombo 6 pt. xxiii 1909 (131-132).

[Jurinskij, Т.] Юринскій, Т. Обзоръ весеннихъ фенологическихъ явленій прпроды въ Восточной Сибири въ 1905 и 1906 годахъ. [Uebersicht der phänologischen Frühjahrserscheinungen in Ostsibirien in den Jahren 1905 u. 1906.] Irkutsk Izv. Vost.-Sib. otd. russ. geogr. Obšč. 38 1907 [1909] (32-63). 814

[Karamsin, A. N.] Карамзинъ, А. Н. Добавленіе къ статьй, Птицы Бугурусланскаго, сопредбльныхъ съ нимъ частей Бугульминскаго, Бузулукскаго уйздовъ, Самарской губернін, и Белебейскаго уйзда, Уфимской губернін." [Егдапили димакой губернін." [Визини димакой губернін." [Визини димакой губернін. Визини (Gouv. Samara) und Belebei (Gouv. Ufa).] Mater. faun. flor. Ross. Moskva 9 1909 (274-284).

[Karějev, S. A.] Карвевъ, С. А. О причина налеганія птиць на проволоку. [Ueber die Ursache des Auffliegens der Vögel auf Draht.] Semja ochotn. Moskva 1909 (109-111). 816

Karrig, O. Vom weissschwänzigen Seeadler (*Haliaëtus albicilla*). Ornith. Monatschr. Magdeburg 34 1909 (168–170).

Kawelin, Eugen vide Gengler, J.

[Kaygorodoff, D. N. von.] Кайгородовъ, Д. Н. Орнитофауна парка Лъенаго Института. (За десятлятте 1897–1907 гг.) [Die Ornithofauna im Park des Forstinstituts bei St. Petersburg im Dezennium 1897–1907.] St. Peterburg Izv. lěsn. Inst. 18 1908 (69– 84, deutsch. Rés. 84) 1 Таb.

Kayser, C. Mathias Rausch. Ornith. Monatschr. Magdeburg 34 1909 (123-133).

Kelham, H. R. Field-Notes on Vultures and Eagles. Ibis London 1909 (413-418). 820 Kelso, J. E. H. Bird notes from the Tyrol. Zoologist London 13 1909 (78-80).

Kempsey, E., Nelson, T. H., Hall, H. and Whitaker, J. Glossy Ibises in Yorkshire, Nottinghamshire and Devon shire. Brit. Birds London 3 1909 (229– 230).

Kéraudel, J. Sur quelques hématozoaires observés au Congo [ehez les oiseaux]. Paris Bul. Soc. Path. exot. 2 1909 (204-209). 823

Kinnear, N. B. The Indian threetoed kingfisher (Ceyx tridactyla) at Matheran. Bombay J. Nat. Hist. Soc. 19 1909 (749). 824

Kirchner, A. Remarques sur la migration des hirondelles de fenêtre (Chelidon urbica L.). Besançon Memsoc. d'ém. Doubs 8th ser. 3 1909 (432-440). 825

Kirkman, F. B. The meaning of birds' songs. Brit. Birds London 3 1909 (121 184). 826

Kleinschmidt, O. Corvus nucifraga. Berajah Halle 1909 (1) Taf. 827

Kl[einschmidt], O. Aberration von Erithacus domesticus. Falco Halle 5 1909 (5-6). 828

K[leinschmidt], O. Die Unterscheidung von Zug- und Standvögeln bei der Schwarzamsel (*Turdus vernus*). Faleo Halle 5 1909 (12-13).

Kleinschmidt, O. Fringilla caelebs gengleri form. nov. Falco Halle 5 1909 (13).

Kleinschmidt, O. Der Formenkreis des Adlerbussards. Falco Halle 5 1909 (14). 831

Kleinschmidt, O. Fringilla montifringilla subcuncolata form. nov. Falco Halle 5 1909 (14). 832

Kl[einschmidt], O. Ist die Löffelente (Anas clypeata) in Deutschland fast so gut wie ausgestorben? Falco Halle 5 1909 (14-15).

Kl[einschmidt], O. Flugbreite des Sceadlers. Falco Halle 5 1909 (15).

Kl[einschmidt], O. Ueber Misteldrosseln. Falco Halle 5 1909 (15-16). 835

Kleinschmidt, O. Beschreibung neuer Formen. Faleo Halle 5 1909 (19-22). 836

(n-11091 g)

Kl[einschmidt], O. Flückigers Sammelreisen in Algerien. [iv. Alauda cristata.] Faleo Halle 5 1909 (24-27).

Kl[einschmidt], O. Laubvogelzug im Mansfelder Seekreis. Falco Halle 5 1909 (44-46). 838

Klinge, M. Kunstig redeplads for Traeløberen (*Certhia familiaris*). [Artificial preservation.] Kjöbenhavn Ornith. Tids. 3 (149-151). 839

Klugh, A. B. A remarkable migration of Yellow-bellied Sapsuekers. Ottawa Nat. 23 1909 (115-116). 840

Knape, Ernst. Ueber die Entwicklung der Hornhaut des Hühnehens. Anat. Anz. Jena 34 1909 (417-424).

Knauer, Friedrich. Vogelzugfragen. Jagd u. Wild Wien 1 1909 (145-149 164-168 178-182). 842

Knowlton, F. H. Birds of the World; a popular account; with a chapter on the anatomy of birds by F. A. Lucas, the whole edited by R. Ridgway. New York (Holt) (xiv + 874) 16 col. pls. and 236 illustr. 1909 8vo. 843

Koch, Rudolf. Ornithologische Notizen. Münster Jahresber. Prov Ver. Wiss. 37 (1908–09) 1909 (61–62). 844

Koch, Wilhelm. Ornithologische Beobachtungen im nördlichen Teile der Lüneburger Heide i. J. 1908. Gefied. Welt Magdeburg 38 1909 (284– 285 291–293 300–302 307–308). 845

Kollibay, Paul. Nachträge zur Vogelfauna Preussisch-Schlesiens. Ornith. Jahrb. Hallein 20 1909 (192–202).

Kollibay, Paul. Ist Lanius meridionalis Temm. in Deutschland vorgekommen? Ornith. Monatschr. Magdeburg 34 1909 (278-279). 847

Kollibay, Paul. Eine vergleichende Besprechung der rheinischen und schlesischen Vogelfauna. J. Ornith. Leipzig 57 1909 (223–226). 848

Königl. Ung. Ornith. Centr. Zugsdaten aus Holland. III. Bericht. Aquila Budapest 16 1909 (230-237).

Koningsberger, J. C. De vogels van Java en hunne economische beteekenis. ii. [Die Vögel von Java und ihre ökonomische Bedeutung. ii.] Buitene e 12-2

zorg Meded. Dep. Landb. 7 1909 (1-87) 52 Taf. 850

Koorders, S. H. Kleine bijdrage tot de kennis der endozoisehe zadenverspreiding door vogels op Java, op grond van een door den Heer Barthels op den Pangerango en bij Batavia bijeengebraehte eollectie. i. [A brief contribution to the knowledge of endozoie seed distribution by birds in Java, based on a collection made by Mr. Barthels on the Pangerango and near Batavia. i.] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (40-49) (Dutch); Amsterdam Proc. Sci. K. Akad. Wet. 12 1909 (108-116) (English).

Kolthoff, Gustaf. En för Sveriges fauna ny fågel. [Fuligula nyroca, new for the Swedish fauna.] Fauna och Flora Uppsala 3 1908 (52).

[Kovalevskij, S.] Ковалевскій, С. Объ органѣ дыханія птицъ. [Ueber das Atmungsorgan der Vögel.] Arch. veterin. nauk St. Peterburg 39 1909 (665-694).

Krause, G. Oologia universalis palaearctica. Lief 48-49. Stuttgart (Fritz Lehmann) 4 p. 4 pls. [1909] 4to. 854

Krabbe, T. N. Saarede fugle som Budbringere. [Wounded birds as message bearers.] Kjöbenhavn Ornith. Tids. 3 1909 (49-55). 855

Krohn, H. Die Gebirgsbachstelze, Motacilla boarula L., als neuer Brutvogel in Schleswig-Holstein. Ornith. Monatschr. Magdeburg 34 1909 (301-303). 856

Krohn, H. Ueber das Ei und das Brüten von Spheniscus demersus (L.). Zool. Beob. Frankfurt a. M. 50 1909 (229-232).

Künckel d'Herculais, J. Le déplacement de l'homme dans l'espace comparé avec celui des Oiseaux et des Insectes. Paris C. R. ass. franç. avanc. sei. 37 (Clermont-Ferrand) 1908 [1909] (622-625).

Kunze, Fritz. Einige Notizen über die Säugetier- und Vogelfauna von Deutsch-Südwestafrika. Gesammelt 1906–1907. Zool. Beob. Frankfurt a. M. 50 1909 (11–20). 859 Kuroda, N[aganori]. Amerika hidori. [Anas americana.] Dobuts. Z. Tokyo 21 1909 (145-146).

Laguesse, E. Preuve expérimentale du balancement dans les îlots endoerines du Pigeon. Paris C. R. soc. biol. 67 1909 (94-96). 861

Lamb, C. Nesting of the Xantus Murrelet as observed on Los Coronados Islands, Lower California. Condor Hollywood Cal. 11 1909 (8-9). 862

Lampe, Ed. Katalog der Vogelsammlung des Naturhistorischen Museums zu Wiesbaden Tl IV: Gaviae, Tubinares, Plataleae, Herodiones, Steganopodes, Pygopodes, Aleae et Impennes. Wiesbaden Jahrb. Ver. Natk. 62 1909 (68-102).

Langtry, R. I. A summer Fieldfare in Co. Down. Irish Nat. Dublin 18 1909 (207). 864

Lapicque, Louis. Le poids de l'encéphale dans les différents groupes d'Oiseaux. Bul. Muséum Paris 1909 (408-412).

Lapicque, Louis et Lapicque, Mme Marcelle. Consommations alimentaires d'oiscaux de grandeurs diverses en fonction de la température extérieure. Paris C. P. soc. biol. 66 1909 (289-292).

Lapicque, Louis et Lapicque, Mme Marcelle. Consommation alimentaire des petits Oiseaux aux températures élevées. Paris C. R. soc. biol. 67 1909 (337-339).

Lapicque, L. et Petetin, J. Fer du foic ehez quelques oiscaux, particulièrement chez le canard. Paris C. R. soc. biol. 66 1909 (844-845).

La Riboisière, J. de. Le rapport du poids du foie au poids du corps chez les oiseaux. Paris C. R. Acad. sei. 148 1909 (1794-1796).

La Touche, J. D. D. The collection of birds in the Shanghai Museum. Shanghai J. China R. As. Soc. 40 1909 (69-107).

Laubmann, Alfred. Ucber Farbvarietäten bei *Picus viridis* L. Ornith. Monatsber. Berlin 17 1909 (112-113). 871

Laubmann, Alfred. Über Schnabelmissbildung bei Corvus frugilegus L. Ornith. Monatsber. Berlin 17 1909 (168-169). 872 Laveran, A. et Pettit, A. Sur un hémamibe de *Melopelia teucoptera*. Paris C. R. soc. biol. 66 1909 (952– 954).

[Lavrov, S.] Лавровъ, С. Систематическій Каталогъ позвоночныхъ животныхъ Зоологическаго Музея Имп. Казанскаго Упиверситета. Часть II. Птицы (Aves). Добавленіс. [Systematischer Katalog der Wirbeltiere des Zoologischen Muscums des Kais-Universität Kazan. II. Teil. Aves. Nachtrag.] Kazani Zap. Univ. 76 1909 12 (1-35).

[Lavrov, S.] Лавровъ, С. Впечатльнія и научные результаты льтпяго путешествія по Енисейской тундрь. [Eindrücke und wissenschaftliche Ergebnisse eines Sommerreise in die Jenissei-Tundra.] Kazani Trd. Obšč. jest. 41 1909 4 (1-31).

Lawson, H. [Wood-chat's nest in Oxfordshire.] Oxford Rep. Ashmol. Nat. Hist. Soc. for 1908, 1909 (51). 876

Lécaillon, A. Sur la segmentation parthénogénétique de l'œuf des oiseaux. Paris C. R. Acad. sci. 148 1909 (52-53).

Lécaillon, A. Sur la présence de sphères attractives et de centrosomes dans les cellules issues de la segmentation parthénogénétique de l'œuf de la poule et sur les caractères de ces formations. Paris C. R. Acad. sci. 149 1909 (64-66).

Lécaillon, A. Sur la segmentation de l'œuf non fécondé du paon (Pavo cristatus L.). Paris C. R. soc. biol. 66 1909 (143-145).

Lécaillon, A. La segmentation parthénogénétique chez la Poule qui ne s'est jamais accouplée. Paris C. R. soc. biol. 66 1909 (966-968 1053-1055).

880

Leege, Otto. Sturmmöve und Eidergans, neue Brutvögel der südlichen Nordseeinseln. Ornith. Monatschr. Magdeburg 34 1909 (69-74). 881

Leege, Otto. Der Memmert, eine neue Vogelfreistätte in der Nordsee. Ornith. Monatschr. Magdeburg 34 1909 (105-123).

Leege, Otto. Albinismus bei Bernicla. Ornith. Monatschr. Magdeburg 34 1909 (202). 883 Leege, O. Fichtenkreuzschnabel-Invasion 1909. Ornith. Monatschr. Magdeburg 34 1909 (369-370). 884

Leege, O. Phylloscopus trochilus eversmanni (Bp.). Ornith. Monatschr. Magdeburg 34 1909 (371-372). 885

Leege, Otto. Die Vogelkolonie auf Langeoog. Ornith. Monatschr. Magdeburg 34 1909 (449-454). 886

Léger, M. et Mathis, C. Leucocytozoon de la Perdrix du Tonkin. Ann. Inst. Pasteur Paris 23 1909 (740-743) pl. xix. 887

Léger, M. vide Mathis, C.

Leigh, A. G. vide Ticehurst.

Leiper, R. T. Description of Filaria mavis n. sp. from the Thrush. Zoologist London 13 1909 (337-339). 888

Lelièvre, A. ct Retterer, E. Structure des muscles lisses des oiseaux. Paris C. R. soc. biol. 66 1909 (449-452).

L[enny], F. Thomas Southwell, F.Z.S., M.B.O.V. in memoriam. London Mus. J. 9 1909 (189-191). 890

Leone, Nicola de. Notizie ornitologiche: — Mostruosità becco di alcuni uccelli. Ipocromatismo ed ipercromatismo. Catture interessanti. Roma Boll. Soc. zool. ital.
10 1909 (126-128).

Leone, Nicola de. Nidificazione del Lodolaio (Falco subbuteo) nell'Abruzzo. Roma Boll. Soc. zool. ital. 10 1909 (129-131).

Leone, Nicola de. Il Falco feldeggi (Schleg.) nel l'Abruzzo. Roma Boll. Soc. zool. ital. 10 1909 (132-141) 1 fig. 893

Le Roi. Bemerkungen über einige neuere westdeutsche Lokalfaunen. Ornith. Monatsber. Berlin 17 1909 (65– 70). 894

le Roi, O. Ornithologische Notizen. [Ob Spechte od. Meisen Schilfstengel anschlagen. Urinator arcticus, Fuligula stelleri in Deutschland?]. Ornith. Monatschr. Magdeburg 34 1909 (368-369).

Le Souëf, D. Description of a new Shrike Robin. Emu Melbourne 9 1909 (70-71) pl. 3. 896

Le Souëf, D. The White Oological collection. Emu Melbourne 9 1909 (90-91) pls. 4-5.

Letacq, A.-L. Note sur un falcinelle éclatant (Falcinellus igneus Gray) tué à Saint-Ouen-de-la-Cour (Orne) et sur une Buse pattue (Buteo lagopus Brünn) tuée dans la forêt de Perceigne (Sarthe). Rouen Bul. soe. amis sei. nat. 42 1907 (8-10).

Letacq, A.-L. Concernant trois Oiseaux observés dans l'Orne. Rouen Bul. soc. amis sci. nat. 44 1909 (243). 899

Levander, K. M. Tierphänologische Beobachtungen in Finland, 1903, 1904, 1905, 1906, 1896. Bidr. F. Vet. Soc. Helsingfors 64 1907 (173-193 319-336 337-360 361-381 383-425). 900

Levander, K. M. [Pastor roseus in Finnland.] Ornith. Monatsber. Berlin 17 1909 (5-6). 901

Lie-Pettersen, O. J. Rodstruben (Erithacus rubecula L.). Bergen Naturen 33 1909 (114-123). 902

Lie-Pettersen, O. J. Bastardnattergalen (Hypolais hypolais). Bergen Naturen 33 1909 (147-154). 903

Lindner, Adolf. Die Nachtigall im Freien und als Stubenvogel. Gefied. Welt Magdeburg 38 1909 (6-7 12-13 21-22 29-30 36-37). 904

Lindner, Adolf. Meine ornithologischen Beobachtungen in den Jahren 1908 u. 1909. [Breslau.] Vortrag. . . Gefied. Welt Magdeburg 38 1909 (316-318 325-327). 905

Lindner, Fr. Eine für Deutschland wohl neue Anpassung von Columba oenas L. Ornith. Monatsber. Magdeburg 34 1909 (320-322). 906

Lindner, Fr. Eine neue interessante Anpassung: Die Hohltaube nistet in Erdhölen und Felsenspalten. Uns. Welt Godesberg 1 1909 (469-472).

Lindner, Fr. vide Hennemann.

Lintia, Dénes. Adatok Délmagyarország avifaunájához. [Beiträge zur Avifauna von Südungarn.] Delmagy. Termt. Füz. Temesvár 33 1909 (190–199).

Lintia, Dénes. Fogoly mimiery. [Rebhuhnmimiery.] Aquila Budapest 15 1908 (306). 909

Lintia, D. Meine ornithologische Studien-exkursion in die Dobrudscha. Aquila Budapest 16 1909 (156-178). Linton, C. B. Further notes from San Clemente Island. Condor Hollywood Cal. 11 1905 (193-194). 911

Lodge, R. B. Bird hunting through Wild Europe. With 124 illustrations, from photographs by the author. London (Culley) (333) 124 illustr. [1908] 8vo. 912

Loeffel, C. Allerlei vom Storch. Zs. Oologie Berlin 19 1909 (12-13).

Löer. Die normale Körperwärme, Atem- und Pulszahl der Vögel unter besonderer Berücksichtigung unseres Hausgeflügels. Berlin (R. Schoetz) 1909 (26) 4 Taf. 23 cm. 1 M. 914

Löer. Ueber den Einfluss des Alters auf die Körperwärme bei Gänsen und Enten. Areh. ges. Physiol. Bonn 128 1909 (555-559). 915

Löer. Körpertemperatur beim Geflügel. D. tierärztl. Wochenschr. Hannover 17 1909 (698–700). 916

Löer. Die Bluttemperaturen der Vögel. Ornith. Monatschr. Magdeburg 34 1909 (417-420). 917

Lönnberg, Einar. Notes on birds collected by Mr. Otto Bamberg in Southern Transbaicalia and Northern Mongolia. Ark. Zool. Stockholm 5 No. 9 1909 (1-42) figs. 918

Lönnberg, Einar. Några fynd af subfossila vertebrater. [Some finds of subfossil vertebrates.] Ark. Zool. Stockholm 6 No. 3 1909 (1-28) 11 Text figs. English summary 26-28; also Fauna och Flora Uppsala 4 1909 (254-270) figs.

L[önnberg], E. Några ord om Sandwichsöarnes fågelvärld. [Birds of the Sandwich-islands.] Fauna och Flora Uppsala 3 1908 (43-48). 920

Löns, Edmund. Die Sinne der Vögel. Weidmann Braunschweig 40 1909 (824–825). 921

Löns, Hermann. Die Erhaltung unserer Tierwelt. (Dürer-Bund. 45. Flugschrift zur ästhetischen Kultur.) München (Druck v. Kastner & Callwey) 1909 (11). 24 cm. 922

Löns, Hermann. Die Veränderung unserer Vogelwelt. Natur u. Erziehg Stuttgart 1901–10 (78–82). 923

Loos, Kurt. Erfreuliches und Unerfreuliches über den Uhu in Böhmen. Ornith. Jahrb. Hallein 20 1909 (152-153). 924

Loos, Curt. Ein Beitrag zur Frage über die Ernährung des Waldkauzes. [Syrnium aluco]. Ornith. Beob. Bern 6 1908 (72-78). 925

Lorenz, L. v. und Hellmayr, C. E. Ein Beitrag zur Ornis Südarabiens. Wien Denkschr. Ak. Wiss. 71 1 halbband 1907 (103–121) 1 pl. 926

Lorenz, Th. Phasianus shawi (Ell.) subsp. nova chrysomeloides. Ornith. Monatsber. Berlin 17 1909 (171-172).

Lortet et Gaillard. La faune momifiée de l'ancienne Egypte et recherches anthropologiques (3e, 4e et 5e séries). [Oiseaux, pp. 95-99, 145-158]. Arch. Muséum hist. nat. Lyon 10 1909. 928

Loudon-Lisden, Baron Harald. Vorläufiges Verzeichnis der Vögel der russischen Ostseeprovinzen Estland, Livland und Kurland. St. Peterburg Ann. mus. zool. 14 1909 (192-222). 929

Loudon, Harald von. Isolierte Auerhühner. N. Balt. Weidm.-bltr Riga 5 1909 (302). 930

Lowe, P. R. Notes on some Birds collected during a cruise in the Caribbean Sea. Ibis London 1909 (304-347).

Lowe, P. R. Winter habits of the Blackcap and mating for life. Brit. Birds London 3 1909 (79-81). 932

Lowe, P. R. The meaning of birds' songs. Brit. Birds London 3 1909 (183-184).

Lowieser, E. Merops apiaster L.-Kolonie am Plateau in Titel. Aquila Budapest 16 1909 (307-308). 934

[Lucanus, Friedrich von. Vogelzugbeobachtungen in Rositten.] J. Ornith. Leipzig 57 1909 (226-229). 935

Lucas, F. A. vide Knowlton, F. H.

Lüderwaldt, H. Beitrag zur Ornithologie des Campo Itatiaya. Zool. Jahrb. Jena Abt. f. Syst. 27 1909 (329-360). 936

Lühe. Vogelzugsversuche. Königsberg Schr. physik. Ges. 49 (1908) 1909 (385-386).

Lühe, M. Albinismus bei Säugetieren und Vögeln Ostpreussens. Königsberg Schr. physik. Ges. 50 1909 (48-54).

Lühe, M. Eine Saatkrähenkolonie im Weiehbilde der Stadtkönigsberg. Königsberg Sehr. physik. Ges. 50 1909 (174-177) I Taf. 939

Lynes, H. Observations on the migration of birds in the Mediterranean. Brit. Birds London 3 1909 (36-51 69-77 99-104 133-150).

Macdonald, K. The white-winged Wood-duck (Asarcornis scutulata) in Tenasserim. Bombay J. Nat. Hist. Soc. 19 1909 (263). 941

Macfarlane, R. Notes on the Mammals and Birds of Northern Canada in "Charles Mair's Through the Mackenzie Basin." (287-448). Toronto (William Briggs) 1908 8vo. 942

MacGregor, A. The Cuekoo. Perth Trans. Soc. Nat. Sci 5 1909 (30-34).

Mack, A. E. A bush ealendar. With forty-two illustrations from Nature. Sydney (Angus and Robertson) 1909 8vo (vi + 110).

Mackeith, T. T. Notes on the birds of West Renfrewshire (Caldwell district) 1908. Zoologist London 13 1909 (228-231). 945

Mackie, A. C. Birdnotes at Wellsnext-the-sea. Nature Notes London 20 1909 (20-22). 946

Macoun, J. and Macoun, J. M. Catalogue of Canadian birds. Canada Department of Mines Geological Survey Branch (1-761) [2nd ed.] Ottawa 1909 8vo. 947

Macpherson, A. H. Notes on London Birds in 1908. Selbourne Mag. London 20 1909 (42-43). 948

Macpherson, H. B. The home-life of a Golden Eagle, photographed and described. London (Witherby) 1909 8vo (46) 32 pls. 949

Madarász, Julius von. Contribution to the Mongolian Ornis with description of some new species. Ann. Hist. Nat. Mus. Nat. Hung. Budapest 7 1909 (175-178) pl. iv. 950

Madarász, Julius. Adatok a vadludak természetrajzához. [Zur Naturgesehiehte der Wildgänse.] Ann. Hist. Nat. Mus. Nat. Hung. Budapest 7 1909 (302-306) Taf. v. 951

Madarasz, J. Ueber einen neuen Dickfuss Oedicnenus csongor. Budap. Arch. zool. 1 1909 (11-12) figs. 1-3.

Magaud d'Aubusson. Excursions ornithologiques aux îles d'Yeu et d'Oléron. Naturaliste Paris 31 1909 (101-103).

Magrath, H. A. F. Bird notes from Murree and the Galis. Bombay J. Nat. Hist. Soc. 19 1909 (142-155). 954

Magrath, H. A. F. The jungle crow (Corvus macrorhynchus). Bombay J. Nat. Hist. Soc. 19 1909 (256-258).

Magrath, H. A. F. Bird Notes from Dunga Gali. Bombay J. Nat. Hist. Soc. 19 1909 (753-755). 956

Magrath, H. A. F. vide Whitehead.

Mailliard, J. Nest of the Dusky Poor-will (Phalaenoptilus nuttalli californicus). Condor Hollywood Cal. 11 1909 (45-47). 957

Mailliard, J. Nest of the California bi-colored blackbird. Condor Hollywood Cal. 11 1909 (127-128). 958

[Malychin, N.] Малыхинъ, Н. Полеть и высыпки дупелей [Der Zug und das plötzliche Auftreten der Doppelschnepfen.] Ochotn. věstn. Moskva 9 1909 (279–281). 959

Manders, N. The Colombo crow (Corvus splendens); a case of the survival of the fittest. Spolia Zeylan. Colombo 6 1909 (130). 960

Mäntyvaara, Einari. Eräiden muuttolintujen tulo- ja lähtöajat Suojärvellä v. 1909. [Ankunft- und Abzugdaten einiger Zugvögel in Suojärvi, Finland, 1909.] Luonnon Ystävä Helsingfors 13 1909 (216–217).

Marble, Richard Merrill. Notes from Crawford Noteh, N. H. Auk Cambridge Mass. 26 1909 (437). 962

Marquand, E. D. Report of the Ornithological Section. Guernsey Rep. and Trans. Soc. Nat. Sci. 1908 1909 (437-440). 963

Marquand, E. D. The Guernsey dialect names of birds, fishes, insects, etc. Guernsey Rep. and Trans. Soc. Nat. Sci. 1909 (512-531).

Marriner, G. R. The Kea: a New Zealand Problem, including a full description of this very interesting bird, its habitat and ways, together with a discussion of the theories advanced to explain its sheep-killing propensities (1-152). Christchurch N.Z. 1908 8vo. 965

Marriott, C. H. The study of Bird life. Its difficulties. Dumfries Trans. Nat. Hist. Soc. 20 1909 (145-157).

Marshall, G. A. K. Birds as a factor in the production of mimetic resemblances among butterflies. London Trans. Ent. Soc. 1909 (329-383).

Masefield, J. R. B. Nesting of the Nightingale (Daulias luscinia) in Staffordshire. Zoologist London 13 1909 (75). 968

Masefield. Aves. Stafford Rep. Trans. N.S. F. Cl. 43 1909 (70-75).

Masse, F. L'instinct chez la Foulque [Fulica atra]. Paris Rev. Fr. d'Orn. 1 1909 (10-12). 970

Masse, F. L'utilitarisme et ses exceptions chez l'oiseau. Paris Rev. Fr. d'Orn. 1 1909 (116-119). 971

Mathews, G. M. [Nomenclature of Australian Parrots.] London Bull. Brit. Ornith. Cl. 25 1909 (24). 972

Mathews, G. M. [Description of 2 spp. nov.] London Bull. Brit. Ornith. Cl. 25 1909 (24).

. Mathews, G. M. [Description of Amytornis whitei and additions and corrections to the "Hand-list to the Birds of Australasia."] London Bull. Brit. Ornith. Cl. 25 1909 (34). 974

Mathews, G. M. Malurus dulcis (Lavender-flanked Wren). sp. nov. Emu Melbourne 8 1909 (113-114) pl. B 975

Mathews, G. M. On the birds of North-West Australia. With field notes by the Collector J. P. Rogers. Emu Melbourne 9 (1-16 53-65) 976

Mathews, G. M. Black tailed Godwit. Emu Melbourne 9 1909 (28). 977

Mathews, G. M. The birds of the Alexandra District, Northern Territory. Emu Melbourne 9 1909 (65-69). 978 Mathews, G. M. Additions to the "Handlist of the Birds of Australasia." Emu Melbourne 9 1909 (92).

Mathews, R. O.
Snipe in Wiltshire.
London 3 1909 (28-29).

Nesting of the
British Birds
980

Mathis, C. et Léger, M. Microfilaire de la Poule. Paris C. R. soc. biol. 67 1909 (407-409). 981

Mathis, C. et Léger, M. Trypanosome de la Poule. Paris C. R. soc. biol. 67 1909 (452-454). 982

Mathis, C. et Léger, M. Leucocytozoon de la Poule. Paris C. R. soc. biol. 67 1909 (470-472). 983

Mathis, C. et Léger, M. Recherches sur le Leucocytozoon de la Poule. Périodicité des formes sexuées dans le sang. Paris C. R. soc. biol. 67 1909 (688-690).

Mattingley, A. H. E. In the heart of the Mallee. Vict. Nat. Melbourne 26 1909 (64-77). 985

Mattingley, A. H. E. Thermometerbird or Mallee-fowl (*Lipoa ocellata*). Part ii. Emu Melbourne 8 1909 (114-121) pl. xi. 986

Matys, W. Entwicklung und Topographie der Muskulatur der Orbita bei Vögeln. Tl 1. Arch. Anat. Physiol. Leipzig Anat. Abt. 1908 (321–351) 3 Taf. 987

McAtee, W. L. The horned larks and their relation to agriculture. Washington D.C. U.S. Dept. Agric. Biol. Surv. Bull. No. 23 1905 (1-37) pl. text fig.

McClymont, J. R. The geographical distribution of the land-birds of the Banda Islands. (Cont.) Zoologist London 13 1909 (330-336). 989

McGregor, R. C. A manual of Philippine Birds. Part I. Galliformes to Eurylaemiformes. Manilla P.I. (Bureau of printing) 1909 8vo (x + 412).

McGregor, R. C. A collection of birds from Northern Mindanao. Philippine J. Sci. Manilla P.I. 4 1909 (67-77).

McGregor, R. C. Philippine ornithological literature, II. Philippine J. Sci. Manilla P.I. 4 1909 (79-86).

McKechnie, F. B. Dendroica discolor and Dendroica vigorsi in eastern Massachusetts in winter. Auk Cambridge Mass. 28 1909 (195). 993

McKechnie, F. B. Massachusetts bird notes. Auk Cambridge Mass. 26 1909 (199-200). 994

Mearns, E. A. Additions to the list of Philippine birds, with descriptions of new and rare species. Washington D.C. Smithsonian Inst. U.S. Nation. Mus. Proc. 36 1909 (435-447).

Mearns, E. A. Alist of birds collected by Dr. Paul Bartsch in the Philippine Islands, Borneo, Guam and Midway Island, with descriptions of three new species. Washington D.C. Smithsonian Inst. U.S. Nation. Mus. Proc. 36 1909 (463-478).

Medlicott, W. S. Curious nesting site of a Wood-warbler. Brit. Birds London 2 1909 (380-381). 997

[Medvědev, A.] Медвіздевъ, А. Орнитологическая находка. [Ein ornithologischer Fund.] Naša ochota St. Peterburg 3 1909 7 (46). 998

Meerwarth, H. Lebensbilder aus der Tierwelt. 2^{te} Folge. Vogel. Leipzig [1909] 8vo (viii + 596). 999

Menegaux, A. American Egrets as victims to fashion. Zoologist London 13 1909 (245-252).

Ménégaux, A. Sur le nid des fourniers (Furnarius, Vieill.). Bul. muséum Paris 1909 (6-12). 1001

Ménégaux, A. Collections d'oiseaux de Cuba, acquise par le laboratoire d'ornithologie du Muséum. Bul. Muséum Paris 1909 (237-239) et Paris Rev. Fr. d'Orn. 1 1909 (21-32). 1002

Ménégaux, A. Le nid du fournier. Paris C. R. soc. biol. 66 1909 (141-143).

Ménégaux, A. Description, mensuration et étiquetage des spécimens en ornithologie. Paris Bul. soc. nat. acclim. 55 1908 (401-417). 1004

Ménégaux, A. La vie des cormorans dans l'Antarctique. Naturaliste Paris 31 1909 (65-66). 1005

Ménégaux, A. Questions de morphologie et de psychologie chez les oiseaux. Bul. inst. psych. internat. Paris 7 1907 (427-440). 1006

Ménégaux, A. Sur la présence d'un Dendrocygna arcuata à Aigues-Mortes (Gard). Paris Rev. Fr. d'Orn. 1 1909 (57). 1007

Ménégaux, A. Étude d'une collection d'oiseaux provenant de la Bolivie et du Pérou méridional. Paris Bul. soc. philom. scr. 10 1 1909 (205-229).

Menzel, F. Die Vogelwelt von Helmstedt (Herzogtum Braunsehweig) und Umgebung. Ornith. Jahrb. Hallein 20 1909 (85-117).

Menzel, F. Das Brüten des Tannenhehers im Harze. Berajah Halle 1909 (4-6) Taf. 1010

Meschinelli, Luigi. Contribuzione all' Avifauna italiana. Cattura di un esemplare di Oedicnemus senegalensis Sw. nel Vicentino. Venezia Atti Ist. ven. 68 1908-09 (65-68). 1011

Mesdag, T. M. Bijdrage tot de ontwikkelingsgeschiedenis van de structuur der hersenen bij het kipembryo. [Beitrag zur Entwicklungsgeschichte der Hirnstructur beim Embryo des Hühnehens.] Groningen (M. de Waal) 1909 (153) 11 Taf. 25 cm. 1012

Meves, Friedr. Ueber Neubildung quergestreifter Muskelfasern nach Beobachtungen am Hühnerembryo. (Vorl. Mitt.) Anat. Anz. Jena 34 1909 (161– 165). 1013

Meyer, Otto. Das Leben der Vögel im Urwald Neu-Pommerns. Natur u. Offenb. Münster 55 1909 (464-475). 1014

Meyer, W. Zur Vogel-Fauna des Bismarek-Archipels. Ornith. Monatsber. Berlin 17 1909 (33–38). 1015

Meyrick, H. The Lesser Redpole (Linote rufescens) at Hampstead. Zoologist London 13 1909 (270). 1016

Mezincescu, D. Leucocytozoon ziemanni et trypanosomes chez l'Epervier (Falco nisus). Paris C. R. soc. biol. 66 1909 (328-329). 1017

Mezincescu, D. Évolution des Ookinètes d'Haemoproteus dans l'intestin des Moustiques. Paris C. R. soc. biol. 66 1909 (329-330) fig. 1018

Mezincescu, D. et Calinescu, J. Spirillose des poules et Argas persicus en Roumanie. Paris Bul. Soc. Path. exot. 2 1909 (292-293). 1019

[Michalovskij, S. O.] Михаловскій, И. О. О строеніи и гистогенетическомъ развитіи железистаго желудка у птицъ. [Ueber den Bau und die histogenetische Entwicklung des Drüsenmagens bei den Vögeln.] Moskva Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910g. [Prot.] 1910 (181).

Michalovsky, J. Zur Frage über funktionelle Aenderungen in den Zellen des Drüsenmagens bei Vögeln. Anat. Anz. Jena 34 1909 (257–275). 1021

Mierzejewski, L. Beitrag zur Entwicklung des Lymphgefässsystems der Vögel (Vorläufige Mitteilung). Kraków Bull. Intern. Aead. 1909 No. 7 (472-481) 4 figs.

Millais, J. G. The natural history of British Game Birds. London 1909 (1-142) 18 pls folio. 1023

Millais, J. G. [Hybrid Grouse.] London Bull. Brit. Ornith. Cl. 23 1909 (51-52); also Brit. Birds London 2 1909 (384-387) with plate. 1024

Millais, J. G. [Erythrism in the Red Grouse and an example of a female Black Grouse assuming male plumage.] London Bull. Brit. Ornith. Cl. 25 1909 (40-41).

Miller, C. W. An experiment in the colonization of the House Martin. Worthington Soc. Study Bird Life Bull. No. 1 1909 (12) 4 pls. [cf. Auk 26 p. 446].

Miller, Loye Holmes. Pavo californicus, a fossil peacock from the Quaternary asphalt beds of Rancho La Brea. Berkeley Univ. Cal. Pub. Bull. Dept. Geol. 5 1909 (285–289) pl. xxv. 1027

Miller, Loye Holmes. Teratornis a new avian genus from Rancho La Brea. Berkeley Univ. Cal. Pub. Bull. Dept. Geol. 5 1909 (305-317) figs. 1-11. 1028

Miller, Richard F. Actodromas fuscicollis in Philadelphia county, Pa. Auk Cambridge Mass. 26 1909 (427– 428). 1029

Miller, W. De W. The races of the Parula Warbler (Compsothlypis americana). Auk Cambridge Mass. 26 1909 (309-310).

Miller, W. De W. The rank of eertain groups of birds. Auk Cambridge Mass. 26 1909 (313). 1031 Moffat, C. B. The use of domed nests. Irish Nat. 18 1909 (161-166).

Momber, C. A. Morals and Birds. Avicult. Mag. Brighton 1 1909 (47-50).

Monahan, G. J. Occurrence of the Baikal or clucking teal (Nettion formosum) in north Behar. Bombay J. Nat. Hist. Soc. 19 1909 (526). 1034

Monek, E. F. B. Redstart in Sussex. Brit. Birds London 3 1909 (56). 1035

Montagu, E. [Sabine's Gull and hybrid Fuligula ferina × F. nyroca.] London Bull. Brit. Ornith. Cl. 23 1909 (103-104).

Montell, Justus. Hårfåglar på Lapplandsbesök. [Upupa epps in Lappland.] F. Jakttidn. Helsingfors 2 1907 (346). 1037

Montell, Justus. Ung smådopping (Podiceps fluviatilis [Tunst.] = Podiceps minor [Gmel.]) från norra Enontekis. [Podiceps fluviatilis [Tunst.] = Podiceps minor [Gmel.]) aus dem nördlichen Teil des Kirchspiels Enontekis] F. Jakttidn. Helsingfors 3 1908 (142-143).

M[ontell], J. I Muonio öfvervintrande kråkor och råka. [In Muonio, Lappland, überwinternde Exemplare von Corvus cornix und C. frugilegus.] F. Jakttidn. Helsingfors 3 1908 (193).

Montell, Justus. Några under sommaren 1908 i västra Lappland observerade sällsyntare fåglar. [Einige im Sommer 1908 im westlichen Lappland beobachtete seltenere Vögel.] F. Jakttidn. Helsingfors 3 1908 (404).

Montell, Justus. Den tilltänkta nationalpark in kring Pallastunturi och dess fågelfauna. [Der um den Pallastunturi geplante Nationalpark und dessen Vogelfauna.] F. Jakttidn. Helsingfors 4 1909 (10-17).

Morley, J. Ornithological notes from Scarborough. Zoologist London 13 1909 (78). 1042

Morris, Robert O. Rare birds near Springfield, Mass. Auk Cambridge Mass. 26 1909 (84). 1043

Morris, Robert O. The Starling (Sturnus vulgaris) near Springfield,

Mass. Auk Cambridge Mass. 26 1909 (306-307). 1044

Mortensen, H. Chr. C. Teal (Anas crecca L.) in Winter. København Nath. Medd. 1908 1909 (127-139). 1045

Mortensen, H. C. C. Fangst at staere til maerkning. [Capture of starlings for marking.] Kjöbenhavn Ornith. Tid. 3 1909 (85-100) fig. 1-10. 1046

Mortensen, Th. Fuglelivet paa de dansk-vestindiske Oer. [Bird life on the Danish West Indian islands.] København Ornith. Tids. 3 1909 (151-161).

Mourgue, Marcel. Une nouvelle espèce d'alouette pour la France. Feuille jeunes natural. Paris 39 1909 (87).

Mourgue, M. Oiseaux intéressants du département de Vaucluse. Feuille jeunes natural. Paris 39 1909 (92-95). 1049

Mullens, W. H. Some early British Ornithologists and their works. vi. Thomas Pennant (1726–1798). vii. John Ray (1627–1705) and Francis Willoughby (1635–1672). viii. Thomas Berwick (1753–1828) and George Montagu (1751–1815). ix. William Macgillivray (1796–1852) and William Yarrell (1784–1853). British Birds London 2 1909 (259–266 290–300 351–361 389–399) with portraits.

Müller, Fr. Motacilla boarula. Ornith. Monatschr. Magdeburg 34 1909 (143).

Munsterhjelm, Carl. "Sorgtjädern" i norra Finland. [Tetrao urogaltus lugens in Nord-Finland.] F. Jakttidn. Helsingfors 3 1908 (257-258). 1052

Myers, H. W. Notes on the habits of *Phainopepla nitens*. Condor Hollywood Cal. 11 1909 (22-23).

Myers, H. W. Nesting habits of the Rufous-crowned Sparrow. Condor Hollywood Cal. 11 1909 (131-134). 1054

Nagy, Jenö. Sziklafalon fészkelő hórifecskék. [An der Felsenwand brütende Hausschwalben.] Aquila Budapest 15 1908 (311). 1055

Nagy, Jenö. Corvus frugilegus L. és Colaeus monedula (L.) mint időjósok. [Corvus frugilegus L. und Colaeus monedula (L.) als Witterungsanzeiger.] Aquila Budapest 15 1908 (315). 1056

Natorp, Otto. Die Vogelwelt in der Umgebung von Roschkowitz. (Eine Lokal-Ornis aus dem Osten Schlesiens.) Ornith. Monatschr. Magdeburg 34 1909 (86-92 133-141 145-159 177-183 218-232 249-266) Taf. 1057

Neave, S. A. On some new species of birds from Katanga, Congo Free State. Ann. Mag. Nat. Hist. London (8) 4 1909 (129-130).

Neave, S. A. [Description of gen. et spp. n.] London Bull. Brit. Ornith. Cl. 25 1909 (24-25). 1059

Nehrkorn, A. Ei von Phonygama jamesi Shp. Ornith. Monatsber. Berlin 17 1909 (44-45). 1060

Nelson, E. W. A new thrush from Mexico. Washington D.C. Proc. Biol. Soc. 22 1909 (49-50). 1061

Nelson, T. H. vide Kempsey.

[Nesteroff, P. V.] Нестеровъ, П. В. Матеріалы для орнитологической фауны Минусинскаго края и Урянхайской Земли. [Zur Kenntnis der ornithologischen Fauna der Minussinsk-Gegend und des Urjanchai-Landes.] St. Peterburg Trav. Soc. nat. Sect. 2001. 40 2 1909 (97-187, deutsch. Rés. 188-190) 1 Karte.

Neubaur, Rudolf. Ueber Nistgelegenheit der Rauchschwalbe (Hirundo rustica). Ornith. Monatschr. Magdeburg 34 1909 (172-173). 1063

Neumann, O. Die geographischen Formen des Hagedasch-Ibis. Ornis, London 13 1909 (190–196). 1064

Neumann, [O.] [New subsp. of Shrike.] London Bull. Brit. Ornith. Cl. 23 1909 (53-54). 1065

Neumann, Oscar. Neue Formen von Pteroctes. Ornith. Monatsber. Berlin 17 1909 (152-155). 1066

Newman, T. H. Bartlett's Bleeding-Heart Pigeon (*Phtogoenas crinigera*). Avicult. Mag. Brighton 7 1909 (225– 234) 4 pls. 1067

Newstead, A. Black Grouse & (Tetrao tetrix). Zoologist London 13 1909 (77).

Newstead, A. Ornithological records for Chester and North Wales since January, 1908. Zoologist London 13 1909 (78).

Newstead, R. The food of some British Birds. J. Board Agric. London Suppl. 15 No. 9 1908 (viii + 87); Review Brit. Birds 2 1909 (315-316). 1070

Nicholson, F. Geographical distribution of Birds. (Genus Macronyx Swainson.) Manchester Mem. Lit. Phil. Soc. 53 1909 No. 24 (1-11). 1071

Nicoll, M. J. Contributions to the Ornithology of Egypt. No. ii. Birds of the Province of Giza. Ibis London 1909 (285-302 471-484 623-649) pl. iv.

Nicoll, M. J. [Muscicapa semitorquata in Egypt.] Ibis London 1909 (714); also London Bull. Brit. Ornith. Cl. 25 1909 (28). 1073

Nicoll, M. J. Some notes on the Pipits (Anthus) which occur in the Hastings district. Hastings and E. Sussex Nat. 1 1909 (181-185). 1074

Nicoll, M. J. [White collared Flycatcher in Egypt.] London Bull. Brit. Ornith. Cl. 23 1909 (93).

Nicoll, M. J. [Alseonaa latirostris and Hirundo rufula.] London Bull. Brit. Ornith. Cl. 23 1909 (93). 1076

Nicoll, M. J. On rare or little-known Egyptian birds. London Bull. Brit. Ornith. Cl. 23 1909 (99-100). 1077

Nicoll, M. J. The Brown Flycatcher (Muscicapa latirostris. Raffles) in Kent. A new British Bird. Brit. Birds London 3 1909 (112-113) photograph.

Nicoll, M. J. The Red-rumped Swallow in Kent. Brit. Birds London 3 1909 (122-123). 1079

Nicoll, M. J. Additions to the list of wild birds which have visited the Giza Zoological Gardens. Cairo Scient. Journ. 3 1909 (247-250).

Nicoll, M. J. and Bonhote, J. L. On two new subspecies, Galerida cristata moeritica and Passer domesticus niloticus from Egypt and note on the first record of Locustella luscinioides fusca from the same place. London Bull. Brit. Ornith. Cl. 23 1909 (101-102).

Nicoll, M. J. and Ticehurst, N. F. The first British example of the Redthroated Pipit. Brit. Birds London 2 1909 (278-279). Nietsch, Viktor. Ueber den Vogelflug. Graz Mitt. Natw. Ver. Steierm. 42 (1905) 1906 (82-98) 2 Taf. 1083

Nilsson, R. Über Milvus milvuseier. Zs. Oologie Berlin 19 1909 (141). 1084

Noble, H. Common Terns on Holyhead Skerries. Brit. Birds London 3 1909 (90-91). 1085

Noc vide Simond.

Noggler, Jos. vide Schaffer, Alexander.

Noorduyn, C. L. W. De wilde kanarie en zijn kleurverandering. [Der wilde Kanarienvogel und seine Farbenänderung.] Album dei Natuur Haarlem 1909 (240-242).

North, A. J. Nests and eggs of birds found breeding in Australia and Tasmania. Australian Museum Special Catalogue No. 1 vol. 2 part 3 (235–380) pls. Al3 Bxii Bxiii Sydney 1909 4to.

North, Alfred J. Notes on the nesting site of Gerygone personata Gould. Sydney N.S.W. Rec. Austr. Mus. 6 1909 (184-188) pl. lvii. 1088

North, Alfred J. Description of the female with nest and eggs of the einnamon-ehested ground thrush (Cinclosoma marginatum, Sharpe). Sydney N.S.W. Ree. Austr. Mus. 6 1909 (322–324) pl. xcii.

North, A. J. Notes on Newton's Bower-bird, Prionodura newtoniana de Vis, and the Tooth-billed Bower-bird, Scenopoeetes dentirostris Ramsay. Vic. Nat. Melbourne 25 1909 (160-168) pls. vii viii.

North, A. J. Note on some living examples of *Psephotus dissimilis*. Vict. Nat. Melbourne 25 1909 (175-176).

North, A. J. Description of a new species of Acanthiza from Western Australia. Viet. Nat. Melbourne 26 1909 (55-56).

Norton, Arthur H. The Lesser Snow Goose (Chen hyperborea nivalis) in Gorham, Maine. Auk Cambridge Mass. 26 1909 (304).

Norton, Aithur H. The present status of the Mcadowlark (Sturnella magna) near Portland, Maine. Auk Cambridge Mass. 26 1909 (307-308). 1094 Norton, Arthur H. Another Hoary Redpoll (Acanthis hornemanni exilipes) at Westbrook, Maine. Auk Cambridge Muss. 26 1909 (308). 1095

Norton, Arthur H. Bicknell's Thrush (Hylocichla aliciae bicknelli) in Cumberland county, Maine. Auk Cambridge Mass. 26 1909 (312). 1096

Norton, Arthur H. The food of several Maine Water-birds. Auk Cambridge Mass. 26 1909 (438-440). 1097

Norton, E. S. On the decrease in weight of Birds' eggs during incubation. Ibis London 1909 (137-140).

Oates, Eugene W. Note on the Chinese crimson horned pheasant (Tragopan temmincki). Bombay J. Nat. Hist. Soc. 19 1909 (260-261). 1099

 Oberbeck, H.
 Zur Fleekenfarbe der

 Vogeleier.
 Zs. Oologie Berlin 18 1909

 (169-172 185-188).
 1100

Oberholser, Harry C. A revision of the kinglisher genus Ramphaleyon (Pelargopsis). Washington D.C. Smithsonian Inst. Proc. U.S. Nation. Mus. 35 1909 (657-680).

Oberholser, H. C. A new Great Horned Owl from Venezuela, with notes on the names of the American forms. Brooklyn N.Y. Mus. Inst. Arts Sci. Bull. 1 1908 (371-374).

O'Brien, E. Nidification of the Sarus crane (*Grus antigone*). Bombay J. Nat. Hist. Soc. 19 1009 (524). 1103

Ogilvie, F. M. [Golden-eye killed in Suffolk, probably Clangula islandica.] London Bull. Brit. Ornith. Cl. 23 1909 (63-65). 1104

Ogilvie-Grant, W. R. On a collection of Birds from Western Australia. With field-notes by Mr. G. C. Shortridge. Ibis London 1909 (650-689) pl. ix.

Ogilvie-Grant, W. R. [Hybrid Grouse.] London Bull. Brit. Ornith. Cl. 23 1909 (58 59).

Ogilvie-Grant, W. R. [On a new species of Nuthateh from Quelpart Isle, S. Corea.] London Bull. Brit. Orn. Cl. 23 1909 (59).

Ogilvie-Grant, W. R. [On a new species of *Crocopus*.] London Bull. Brit. Ornith. Cl. 23 1909 (67-68).

Ogilvie-Grant, W. R. [Descriptions of spp. nov.] London Bull. Brit. Ornith. Cl. 23 1909 (72-73). 1109

Ogilvie-Grant, W. R. [Sp. nov.] London Bull. Brit. Ornith. Cl. 23 1909 (73-74).

Ogilvie-Grant, W. R. [Spp. nov. from the Ruwenzori Expedition.] London Bull. Brit. Ornith. Cl. 23 1909 (94).

Ogilvie-Grant, W. R. [Spp. nov. from Peak of Cameroon.] London Bull. Brit. Ornith. Cl. 25 1909 (12-13).

Ogilvie-Grant, W. R. [The external sexual and juvenal characters of the Woodcock.] London Bull. Brit. Ornith. Cl. 25 1909 (34-38).

Ogilvie-Grant, W. R. The Northern Marsh-Titmouse in England. A new British Bird. Brit. Birds London 2 1909 (277-278).

Ogilvie-Grant, W. R. and Inglis, C. M. On a new species of bushquail (*Microperdix*) from Goalpara, Assam. Bombay J. Nat. Hist. Soc. 19 1909 (1-3) 1 pl. 1115

Ogilvie-Grant, W. R. [Edited by] Report on the immigrations of summer residents in the spring of 1908: also notes on the migratory movements and records received from lighthouses and light-vessels during the autumn of 1907. By the committee appointed by the British Ornithologists' Club. London Bull. Brit. Ornith. Cl. 24 1909 (1-235).

[Ognev, S.] Огневъ, О. Сипсокъ птицъ изъ Области Войска Донскаго. [Verzeichnis der Vögel aus dem Gebiet der Donschen Kosaken.] Moskva Trd. Kruž. izsl. russ. prir. 4 1909 (148-149).

[Ognev, S. I.] Огневъ, С. И. Матеріалы къ орнитофаунф Смоленской губернін. [Beiträge zur Ornithofauna des Gouvernements Smolensk.] Mater. faun. flor. Ross. Moskva 9 1909 (285-352).

Ohler, C. W. Der Einfluss des Geschlechtslebens der Tiere, insbesondere der Vögel auf die Epidermoidalgebilde der Haut. Bern Vet.-med. Diss. 1904-05 (35) 8vo.

Oldham, C. Early nesting of the Great Crested Grebe. Brit. Birds London 3 1909 (30–31).

Olivier, Ernest. La Perdrix de montagne. Rev. sci. Bourbon Moulins 21 1908 (56-59) fig. 1121

Ollivier, François-Marie. Invasion de beescroisés en 1909. Paris Bul. soc. zool. 34 1909 (250-251).

Olshausen, A. Kritik der Exner'schen Theorie des Zitter- oder Schwirzfluges. Arch. ges. Physiol. Bonn 123 1908 (433-453).

Oort, E. D. van. Birds from south western and southern New Guinca. Nova Guinea. Résultats de l'expédition scientifique Néerlandaise à la Nouvelle-Guinée. Vol. ix. Zoologie. Livr. 1 (51-107) pl. iii Leide 1909 4to.

Oort, E. D. van. On New-Guinca birds. ii. Leiden Notes Mus. Jentink 30 1909 (225-244). 1125

Oort, E. D. van. On Gerygone and Eurylaimus species from Java and from Sumatra. Leiden Notes Mus. Jentink 31 1909 (207-210).

Oort, E. D. van. Report on birds from the Netherlands received from 1 September 1908 till 1 September 1909. Leiden Notes Mus. Jentink 31 1909 (211-220) 1 pl. 1127

Oort, E. D. van. Ucber Xanthomelus ardens. Ornith. Monatsber. Berlin 17 1909 (72).

 Orfeuille, d'.
 Les Cailles de la Bible.

 Paris Bul.
 soc.
 nat.
 acclim.
 56
 1909

 (257-264).
 1129

Ormezzano, Q. Nidification de la bécasse en Saône-et-Loire. Autun Bul. soc. hist. nat. 19 1906 (Proc.verb. 119-120).

Osburn, P. I. Notes on the birds of Los Coronados Islands, Lower California. Condor Hollywood Cal. 11 1909 (134-138) 1 fig. 1131

Osburn, P. I. The nesting of the Heermann Gull. Condor Hollywood Cal. 11 1909 (151-154). 1132

Osgood, Wilfred H. Biological investigations in Alaska and Yukon territory. Washington D.C. U. S. Dept. Agric. Bur. Biol. Surv. N. Amer. Fauna No. 30 1909 (1–96) pls. i-iv. 1133

Osmaston, B. B. Strange behaviour of certain birds when in possession of

TITLES. 5800

strong smelling insects. Bombay J. Nat. Hist. Soc. 19 1909 (752-753). 1134

Osmaston, B. B. The supply of water to young birds in the nest. Bombay J. Nat. Hist. Soc. 19 1909 (753).

Otto, Benno. Oologische Notizen. Ornith. Monatsber. Berlin 17 1909 (3-4)

Otto, Hugo. Sind die Sehwarzamselu (Turdus merula) nützlich oder schädlich? Zool. Beob. Frankfurt a. M. 50 1909 (110-112). 1137

Otto, Hugo. Zunahme und Abnahme der Vögel [Reg.-Bez. Düsseldorf.] Zs. Ornith. Stettin 33 1909 (54-56). 1138

Oustalet, E. vide Germain.

Owen, D. E. and Vaughan, A. G. [Kite protection in Wales.] London Bull. Brit. Ornith. Cl. 23 1909 (88-93).

Owen, J. A. vide Horman, O.

Owen, J. A. vide Johns.

[Pačoskij, I. K.] Начоскій, І. К. Матеріалы по вопросу о сельско-ходийственномъ значеній птицъ. [Beiträge zur Frage über die Bedeutung der Vögel für die Landwirtschaft.] Cherson [Landschaft des Gouv. Cherson] 1909 (1 + 59). 27 ст. 1140

Paessler, R. Beiträge zur Verbreitung der Seevögel. Ornith. Monatsber. Berlin 17 1909 (99-103). 1141

P[almén], J. A. Tysk brefdufva fångad i Finland. [In Finland gefangene deutsche Brieftaube.] F. Jakttidn. Helsingfors 2 1907 (83): and Luonnon Ystava Helsingfors 11 1907 (69).

P[almén], J. A. Märkt finsk-tysk kråka. [Mit Marke versehene, finnischdeutsche Kråhe.] F. Jakttidn. Helsingfors 3 1908 (228). 1143

Palmer, T. S. The Black Rail [Creciscus jamaicensis] in the District of Columbia. Auk Cambridge Mass. 26 1909 (190).

Palmer, T. S. The Black Rail in Maryland. Auk Cambridge Mass. 26 1909 (427). 1145

Palmer, William. Instinctive stillness in birds. Auk Cambridge Mass. 26 1909 (23-36). 1146

Pangburn, Clifford H. The Carolina Wren (Thryothorus ludovicianus) at New Haven, Conn. Auk Cambridge Mass. 26 1909 (195). 1147

Pangburn, Clifford H. Unusual dates for some birds at New Haven, Conn. Auk Cambridge Mass. 26 1909 (198).

Papin, A. De la protection des petits oiseaux. Angers Bul. soc. étud. sci. 37 1908 (1-18).

Paris, Paul. Sur le martinet noir (Apus apus) en captivité. Paris Bul. soc. zool. 33 1908 [1909] (147). 1150

Paris, Paul. Note sur le nid du rouge-gorge (Erythacus rubicola). Paris Bul. soc. zool. 33 1908 [1909] (148).

Paris, P. Les dates d'arrivée et de départ des hirondelles (Hirundo rustica Linné) dans le Département de la Côte-d'Or. Paris Rev. Fr. d'Orn. 1 1909 (12-13).

Paris, P. Notes pour servir à l'ornithologie du Département de la Côted'Or. Paris Rev. Fr. d'Orn. 1 1909 (36-40).

 Paris, P.
 Un curieux nid de Chélidon.

 Paris Rev.
 Fr. d'Orn. 1 1909 (77-78)

 1 fig.
 1154

Paris, P. Anomalies observées chez quelques oiseaux de la Côte-d'Or. Paris Rev. Fr. d'Orn. 1 1909 (102-105).

Parkin, T. [British example of Turdus atrigularis.] London Bull. Brit. Ornith. Cl. 23 1909 (57-58). 1156

Parkin, T. Black-throated Thrush in Kent. Brit. Birds London 2 1909 (378–380) photograph. 1157

Parkin, T. Among the nesting boxes at Westfield Place, Sussex, May 30th, 1908. Hastings and E. Sussex Nat. 1 1909 (178-180).

Parrot, C. Materialien zur bayerischen Ornithologie vi. Sechster Beobachtungsbericht aus den Jahren 1907 und 1908 nebst einer Zusammenstellung württembergischer Vogelzugsdaten aus dem Jahre 1908. Unter Mitwirkung von C. Bertram, J. Gengler, W. Gallenkamp [u. A.]... München Verh. ornith. Ges. 9 (1908) 1909 (68-227) 3 Tab.

Parrot, C. Der Zwergfliegenschnäpper in Südbayern. [In: C. Parrot, Materialien zur bayerischen Ornithologie vi.] München Verh. ornith. Ges. 9 (1908) 1909 (226-227). 1160

Parrot, C. Bericht über eine von Dr. E. Zugmayer in Chinesisch-Turkestan, Westtibet und Kaschmir zusammengebrachte Vogelsammlung. München Verh. ornith. Ges. 9 (1908) 1909 (228-266).

Paschtschenko, S. Vogelzugsbeobachtungen aus Jaroslav. Aquila Budapest 16 1909 (313-315). 1162

 Passig,
 Hans.
 Ornithologisches

 Allerlei.
 1909.
 [Wittenberge.]
 Ge

 fied.
 Welt Magdeburg
 38 1909 (394 395 402-403 411).
 1163

Paterson, D. R. vide Proger.

Paterson, J. Report on Scottish Ornithology for 1908. Ann. Scot. Nat. Hist. Edinburgh 1909 (193-214). 1164

Paterson, J. Notes on the Eagles of Ayrshire. Glasgow Nat. 1 1909 (28-32).

Paterson, J. Burns on Trees and Birds. Glasgow Nat. 1 1909 (38-49).

Paterson, J. The return of summer birds to the "Clyde" Area in 1908 and 1909. Glasgow Nat. 1 (70-73).

Patrizi-Montoro, Filippo. Materiali per una Avifauna della provincia di Roma. Con note del Dott. Giuseppe Lepri. Roma Boll. Soc. zool. ital. 10 1909 (3-103).

Patten, C. J. The migratory movements of certain shore birds as observed on the Dublin coast. Naturalist London 1909 (49-52 83-86); also London Rep. Brit. Ass. 1908 1909 (731-732). 1169

Patten, C. J. Dimorphism in the eggs of Turdus musicus. Naturalist London 1909 (275-277) 1 fig. 1170

Patten, C. J. The ornithology of Skerries, Co. Dublin. Irish Nat. Dublin 18 1909 (185-202). 1171

Patterson, A. H. Some mud-flat bird-notes. Zoologist London 13 1909 (208-212). 1172

Patterson, A. H. Some migration notes from Yarmouth. Zoologist London 13 1909 (469-470).

Patterson, A. H. Natural History notes from Yarmouth. Norwich Trans. Nat. Soc. 8 1909 (755-762).

Patterson, J. T. Gastrulation in the Pigeon's egg—a morphological and experimental study. J. Morph. Philadelphia Pa. 20 1909 (65-124) 10 pls. 21 figs. 1175

[Pavlov, S.] Павловъ, С. Набивка чучелъ и собирание орнитологическихъ Коллекцій. [Das Ausstopfen und das Sammeln von Vögeln.] Semja ochotn. Moskva 1909 (25-29 61-66). 1178

[Pavlov, S.] Павловъ, С. Набивка чучелъ и собиранія орнитологическихъ Коллекцій. Оконч. [Das Ausstopfen und das Sammeln von Vögeln.] Semja ochotn. Moskva 4 1909 (83–87 169-172 201-205).

[Pavlov, S. Т.] Павловъ, С. Т. Бълыя галки. [Weisse Dohlen.] Semja ochotn. Moskva 1909 (182). 1178

Pearl, R. and Pearl, M. D. Data on variation in the comb of the domestic fowl. Biometrika Cambridge 6 1909 (420-432). 1179

Pearl, Raymond und Surface, Frank M. Is there a cumulative effect of selection? Data from the study of fecundity in the domestic fowl. Zs. indukt. Abstammungslehre Berlin 2 1909 (257-275).

Pearson, Leonard S. Breeding of the Least Bittern (Ardetta exilis) in Chester co., Pa. Auk Cambridge Mass. 26 1909 (426-427).

Penard, F. P. and Penard, A. P. De vogels van Guyana (Suriname, Cayenne en Demarara). Paramaribo (Wed. F. P. Penard) n.d. (xliii + 587). 25 cm.

Péneveyre, F. Protection des oiseaux insectivores. Chron. Agric. Lausanne 18 1905 (134-137). 1183

Pennock, C. J. Early nesting of the Barn Owl (Aluco pratincola) in Delaware. Auk Cambridge Mass. 26 1909 (305-306).

Pennock, C. J. Late records for Siskins (Spinus pinus) in Chester county, Pa. Auk Cambridge Mass. 26 1909 (308).

Perreau, G. A. My Indian Aviary. Avicult. Mag. Brighton 7 1909 (88-92 122-129) 1 plate 2 text-figs. 1186

Perreau, G. A. The Cinnamon Treesparrow (Passer cinnamomeus). Avicult. Mag. Brighton 7 1909 (201-205).

Pershouse, Stanley. On the habits of birds when danger—supposed or otherwise—threatens their nests. Bombay J. Nat. Hist. Soc. 19 1909 (528–530).

Petersen, O. G. Fra Notitsbogen. Smaa ornithologisko meddelelser. [From my note-book. Ornithological jottings.] Kjöbenhavn Ornith. Tids. 3 1909 (127-140).

Petetin, J. vide Lapicque, L.

Petit, L. Cas d'albinisme et variétés de coloration chez les écurevils et difiérents oiseaux. Paris Bul. soc. zool. 34 1909 (32-35). 1190

Petry, W. C. vide Donnis.

Pettit, A. vide Laveran, A.

Philippi, F. Dos aves nuevas de Chile [Pelecanus landbecki and Sylviothorhynchus fasciolatus.] Santiago de Chile Bol. Mus. Nac. 1 1909 (63-65) fig. 1191

Phillipps, R. The Coach-whip Bird. Avicult. Mag. Brighton 7 1909 (85-88). 1192

Phillipps, R. Further notes on the Black-checked Lovebird (Agapornis nigrigenis). Avicult. Mag. Brighton 7 1909 (148-156).

Phillipps, R. The Ruby-throated Bulbul. (Rubigula dispar), with reference to some kindred species. Avicult. Mag. Brighton 7 1909 (215– 219 236-240).

Phillipps, R. The Pied Rock-Thrush (Monticola saxatilis). Avicult. Mag. Brighton 7 1909 (279-286 311-319).

Phillipps, R. Breeding of the Bluebreasted Waxbill (Estrilda anyolensis). Avicult. Mag. Brighton 7 1909 (339-350).

Phillipps, R. Breeding of the Quail Finch (Ortygospiza polyzona). Avicult. Mag. Brighton 1 1909 (37-47). 1197

Phillott, D. C. The Bāz-Nāma-yi Nāsiri. A Persian Treatise on Falconry translated. London (Quariteh), (N-11091 g) (xxiv + 195) 1908 8vo [cf. Ibis 1909 p. 707]. 1198

Phillott, D. C. Note on the Drum in Falconry. Eastern hoods for Hawks. Calcutta J. As. Soc. Beng. 4 1908 (159-166) pls. 9-14. 1199

Phillott, D. C. Note on the Peregrine Falcon [Falco peregrinus). Calcutta J. As. Soc. Beng. 4 1908 (259-265).

Phillott, D. C. and Bonnerjee, Gobin Lal. Hindustani-English Vocabulary of Indian Birds. Calcutta J. As. Soc. Beng. 4 1908 (55-79). 1201

Picchi, C. La Loxia curvivostra, Linn. avvertita per la prima volta all' Isola di Capri e qualche nota sull'invasione di questo vecello in alcune provincie italiane nel 1909. Avicula Siena 12 1909 (103-105).

Picquenard, C. A. A propos de la présence du *Ticholroma muraria* en Ille-et-Vilaine. Rennes Bul. soc. sei. méd. 18 1909 (104-105). 1203

Plimmer, H. G. Report on deaths which occurred in the Zoological Gardens during 1908. London Proc. Zool. Soc. 1909 (125-129). 1204

Pocock, R. I. The display of the cock Ostrich. Avicult. Mag. Brighton 7 1909 (286-291) 2 photographs. 1205

[Pogorželiskij, V. А.] Погоржельскій, В. А. Наши рідкости. З. Галка-Альбиносъ. [Unsere Seltenheiten. 3. Dohlen-Albinos.] Moskva Dnev. zool. Sada 3 1909 (181-183).

Pohlman, A. G. The circulation of mixed blood in the embryo Mammal and Bird, etc. Indianapolis Ind. Proc. Acad. Sci. 1908 1909 (201-208). 1207

Polatzek, Johann. Die Vögel der Canaren. (Fortsetzung u. Schluss.) Ornith. Jahrb. Hallein 20 1909 (1-24 117-134).

Polatzek, Johann. Die Vögel der Canaren. (Nachträge und Schlussbemerkungen.) Ornith. Jahrb. Hallein 20 1909 (202-210). 1209

[Ройакоv, G. I.] Поляковъ, Г. И. Къ орнитологической фаунѣ Московской губ. Colymbus arcticus L. [Zur Ornithofauna des Gouv. Moskau. Colymbus arcticus L.] Mater. faun. dor. Ross. Moskva. 9 1909 (258–273).

[Ройакоv, G. I.] Поляковъ, Г. И. Къ орнитологической фаунт Московской губерніи. Помъсь между красноголовымъ и бълогмазымъ нырками. Aythya ferina Linn. × Nyroca nyroca Güld. [Zur Ornithofauna des Gouv. Moskau. Ein Bastard zwischen Aythya ferina L. u. Nyroca nyroca Güld.] Semja ochotn. Moskva 4 1909 (262–264).

Poljakoff, G. J. Zur ornithologischen Fauna des Moskauer Gouvernements. Neues über die Vögel der Gruppe (Ordo) Palmipedes. J. Ornith. Leipzig 57 1909 (573-587).

[Pomerancev, D. V.] Померанцевъ, Д. В. Изсявдованія по вопросу о пиців насъкомоядныхъ птицъ. [Untersuchungen über die Nahrung der insektenfressenden Vögel.] Moskva Dnevn. xii. Sjězda russ. jest. vrač. 1909–1910g. [Prot.] 1910 (278). 1213

Ponebšek, Janko. Das Steppenhuhn in Krain. Ornith. Jahrb. Hallein 20 1909 (214-217). 1214

Ponebšek, Janko. Weitere Beiträge zum Vorkommen des Hausrotschwänzchens in Krain. Falco Halle 5 1909 (37-42). 1215

Poole, M. The development of the subdivisions of the pleuro-peritoneal cavity in birds. London Proc. Zool. Soc. 1909 (210-235). 1216

Portier, P. Détermination de la pression osmotique du sang et des liquides internes des Vertébrés des contrées polaires arctiques. Paris C. R. soc. biol. 62 1907 (627-630). 1217

Pousar, Volter. Masse und Gewicht der Eier von Buteo buteo (L.). Zs. Oologie Berlin 19 1909 (5-6). 1218

Pousar, Volter. Masse und Gewichte der Eier von Turdus merula, T. pilaris und T. iliacus L. Zs. Oologie Berlin 19 1909 (132-136).

Preble, E. A. A biological investigation of the Athabaska-Mackenzie Region. Washington D.C. U.S. Dept. Agric. Bur. Biol. Surv. N. Amer. Fauna No. 27 1908 (574, birds 251-500) 25 pls. 1220

Proger, T. W. and Paterson, D. R. Ornithological Notes. Cardiff Trans. Nat. Soc. 41 1909 (51-53). 1221

Purtscher, Alfred. Ein Vogel-Mohikaner. Der Bartgeier. Schweiz. Bl. Ornithol. Zürich 28 1904 (459-460 471-472 483-484 495-496). 1222

Pycraft, W. P. A book of Birds. London 1908 8vo (viii + 155). 30 pls. 1223

Pycraft, W. P. On a fossil bird from the Lower Pliocene. [Anthus bosniaskii.] London Proc. Zool. Soc. 1909 (368-370) text-fig. 47. 1224

Pycraft, W. P. On the tail-feathers of the Dabchick. Ibis London 1909 (469-471) text-fig. 10. 1225

Pycraft, W. P. [Skull of Palaeocorax moriorum, and remarks on the tail feathers in Podicipes (luviatilis.] London Bull. Brit. Ornith. Cl. 23 1909 (95-96).

Pycraft, W. P. On the Pterylosis of the Black-throated Diver. Brit. Birds London 3 1909 (93-98). 1227

Pycraft, W. P. The colour of the mouth of the nestling Waxwing. Brit. Birds London 3 1909 (121-122).

Pym, F. A. O. 'A list of the birds of the Kaffrarian Frontier. Pretoria J. S. Afric. ornith. Union 5 1909 (91-113).

Quinet. A propos du travail de M. Otto Herman. Bruxelles Ann. Soc. roy. malac. 43 1908 (63-103). 1230

Radcliffe, H. Delmé. Intelligence in birds. Bombay J. Nat. Hist. Soc. 19 1909 (526-527). 1231

Ralfe, P. G. Manx ornithological notes 1905-1908. Brit. Birds London 3 1909 (215-218). 1232

Ransom, B. H. The Taenoid Cestodes of North American birds. Washington D.C. Smiths. Inst. U.S. Nation. Mus. Bull. No. 19 (141) 1909. 1233

Rao Khengarji. The lesser flamingo (Phoenicoptera minor) in Cutch. Bombay J. Nat. Hist. Soc. 19 1909 (262).

Raspail, Xavier. Sur l'enlèvement des œufs d'oiseaux par la pie. Paris Bul. soc. zool. 33 1908 [1909] (149-151). fig. 1235

Raspail, X. Le corbeau freux au point de vue de son utilité. Rev. Fr. d'Orn. 1 1909 (2-9).

Raspail, X. Sur deux cas d'apoplexie chez les oiseaux. Paris Rev. Fr. d'Orn 1 1909 (72-75). 1237 Rawlings, F. C. Sooty Tern near Barmouth. Zoologist London 13 1909 (438). 1238

Ray, M. S. Birds of the Big Basin; with three photographs by O. J. Heinemann. Condor Hollywood Cal. 11 1909 (18-22).

Read, R. H. vide Jourdain.

Reboussin, R. Nidification du Grèbe huppé (*Podiceps cristatus* Lin.) sur l'étang de Boisvinet (Loir-et-Cher). Paris Rev. Fr. d'Orn. 1 1909 (60-63).

Reboussin, R. Retour de l'hirondelle de fenêtre à sa nidification primitive. Paris Rev. Fr. d'Orn. 1 1909 (119-120). 1241

Rechenberger, Arthur. Ornithologisches aus Annabergs Umgebung.
Annaberg Ber. Ver. Natk. 12 (1904–1909) 1909 (67–80).

Reed, C. A. Bird Guide. Part 2. Land birds east of the Rockies, from Parrots to Bluebirds. Worcester Mass. (C. K. Reed) 1909 3½ × 5½ in. (223).

Reed, H. D. and Wright, A. H. The Vertebrates of the Cayuga Lake basin, N.Y. Philadelphia Pa. Proc. Amer. Phil. Soc. 48 1909 (370–459, Aves 409– 453) pls. xvii–xx maps. 1244

Reichenow, Anton. Die jagdbaren Vögel [D.-Ostafrikas]. (Die Fauna der deutschen Kolonien, hrsg. vom Zool. Museum Berlin. Reihe III. Heft 1.) Berlin (R. Friedländer & S. in Komm.) 1909 (iv + 109). 23 em. 1245

Reichenow, Ant. Aves, Vögel. [In: Die Süsswasserfauna Deutschlands, hrsg. v. Brauer. H. 1.] Jena (G. Fischer) 1909 (15-63).

Reichenow, Anton. Neue Formen. J. Ornith. Leipzig 57 1909 (108). 1247

[Reichenow, Anton. Berichtigungen zum Katalog der Sammlung v. Erlanger.] J. Ornith. Leipzig 57 1909 (233-236). 1248

[Reichenow, Anton. Pyromelana leuconota sp. n.] J. Ornith. Leipzig 57 1909 (504). 1249

Reichenow. Cryptolopha minulla (Rehw.). Ornith. Monatsber. Berlin 17 1909 (24). 1250

(N-11091 g)

Reichenow. Neue Vogelarten. Ornith. Monatsber. Berlin 17 1909 (41-42). 1251

R[ei]ch[eno]w. Pyromelana leuconota n. sp. Ornith. Monatsber. Berlin 17 1909 (72). 1252

Reichenow. Neue Arten. Ornith. Monatsber. Berlin 17 1909 (87-88).

Reichenow. Neue Arten von Kamerun. Ornith. Monatsber. Berlin 17 1909 (140). 1254

Reid, Mrs. Breeding of the African Grey Parrot in captivity in Madeira. Avicult. Mag. Brighton 7 1909 (129– 130).

Reinecke, O. Notes on the American Woodcock. Buffalo N.Y. Bull. Soc. Nat. Sci. 9 1909 (136-148) 11 figs.

Réthi, L. Untersuchungen über die Stimme der Vögel. Wien SitzBer. Ak. Wiss. Abt. III 117 1908 (93-109). 1257

Retterer, E. vide Lelièvre, A.

Retzius, Gustaf. Die Spermien der Vögel. [In: Retzius, Biolog. Untersuchungen, N.F., XIV.] Jena (G. Fischer) 1909 (89-122) 9 Taf. 1258

Reuter, Enzio. [Albinotisk färgvarietet af Fringilla coelebs.] [Albinotisehe Farbenvarietät von Fringilla coelebs.] Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (193, deutsch. Ref. 329).

Reuter, F. Sterna fluviatilis oder Sterna macrura? Zs. Oologie Berlin 19 1909 (9-10). 1260

Révész, Géza. Újabb kisérletek a madarak színérzéséről. [Neuere Experimente über die Farbenempfindung der Vögel.] Pótf. Termt. Közl. Budapest 41 1909 (70-73). 1261

Rey, E. Ein Beitrag zur Beurteilung des wirtsehaftlichen Wertes der Insekten fressenden Vögel. Ornith. Monatschr. Magdeburg 34 1909 (25-26). 1262

Rey, E. Wird das Vogelei mit dem stumpfen oder mit dem spitzen Ende voran gelegt? Ornith. Monatschr. Magdeburg 34 1909 (237–239). 1263

Richards, G. Cliff elimbing for Prairie Falcon eggs. Condor Hollywood Cal. 11 1909 (164-166) 2 figs. 1264 Richards, T. W. Notes on Albatrosses and other pelagic birds in Australian waters. Condor Hollywood Cal. 11 1909 (1-8). 1265

Richards, T. W. Nesting of Diomedea nigripes and D. immutabilis on Midway Islands, Hawaian Islands. Condor Hollywood Cal. 11 1909 (122-123). 1266

Richardson, N. M. Report on the first appearances of Birds, etc., in Dorset during 1908. Dorchester Proc. Dorset Nat. Hist. F. C. 30 1909 (238-249).

Richet, C. Des rapports entre la surface de l'aile et le poids du corps chez les oiseaux (Pigeons). Paris C. R. soc. biol. 66 1909 (902-903). 1268

Richet, Charles et Richet, Ch. (fils). Rapport entre la surface des ailes, la surface du corps et le poids chez les Oiseaux. Paris C. R. soc. biol. 66 1909 (443-444).

Richmond, Charles W. A reprint of the ornithological writings of C. S. Rafinesque. Parts 1 and 2. Auk Cambridge Mass. 26 1909 (37-55 248-262).

Ridgway, Robert. New genera, species and subspecies of Formicariidae, Furnariidae and Dendrocolaptidae. Washington D.C. Proc. Biol. Soc. 22 1909 (69-74).

Ridgway, Robert. Hybridism and generic characters in the *Trochilidae*. Auk Cambridge Mass. 26 1909 (440-442).

Ridgway, R. vide Knowlton, F. H.

Riley, J. H. On the name of the Antillean killdeer. Washington D.C. Proc. Biol. Soc. 22 1909 (88). 1273

Rintoul, L. J. and Baxter, E. V. Black Redstart in the Tay Area. Ann. Scot. Nat. Hist. Edinburgh 1909 49).

Rintoul, L. J. and Baxter, E. V. Nesting of the Gadwall in Scotland. Ann. Scot. Nat. Hist. Edinburgh 1909 (184).

Roberts, N. Pyromelana oryx and its nesting parasites. Pretoria J. S. Afric. Ornith. Union 5 1909 (16-18); also Nature London 80 1909 (295).

Roberts, Thos. S. The Prairie Falcon (Falco mexicanus) in western

Minnesota. Auk Cambridge Mass. 26 1909 (191-192). 1277

Roberts, Thomas S. A study of a breeding colony of Yellow-headed Blackbirds; including an account of the destruction of the entire progeny of the colony by some unknown natural agency. Auk Cambridge Mass. 26 1909 (371-389) pls. v-xvi. 1278

Robinson, H. C. On a new species of *Cyornis* from the mountains of the Malay Peninsula. J. Fed. Malay Mus. Kuala Lumpur 2 1909 (163-164). 1279

Robinson, H. C. The birds at present known from the mountains of the Malay Peninsula. J. Fed. Malay Mus. Kuala Lumpur 2 1909 (164-222).

Robinson, H. C. Notes on birds new to, or rare in, the Malay Peninsula. J. Fed. Malay Mus. Kuala Lumpur 4 1909 (129-133).

Robinson, H. W. The occurrence of the Bean Goose in Cumberland [and the] Nesting of the Wigeon in Cumberland. Zoologist London 13 1909 (270-272).

Robinson, H. W. Note on the moulting of the Great Northern Divers. Ann. Scot. Nat. Hist. Edinburgh 1909 (50-51).

Robinson, H. W. Fork-tailed Petrels in Orkney. Ann. Scot. Nat. Hist. Edinburgh 1909 (118). 1284

Robinson, H. W. Leach's Forktailed Petrels in Cumberland and Leneashire. Brit. Birds London 2 1909 (282). 1285

Robinson, H. W. Food of the Redbreasted Merganser. Brit. Birds London 2 1909 (311).

Robinson, H. W. The food of the Common Eider. Brit. Birds London 2 1909 (344). 1287

Robinson, H. W. Notes on the breeding of the Common and Sandwich Terns. Brit. Birds London 3 1909 (169-171). 1288

Rockwell, R. B. The history of Colorado Ornithology; with two maps. Condor Hollywood Cal. 11 1909 (24-32). 1289

Rockwell, R. B. The use of Magpies' nests by other birds. Condor Hollywood Cal. 11 1909 (90-92) 1 fig. 1290

Rockwell, R. B. vide Hersey, L. J.

Rodriguez, J. J. Catálogo de las Aves de Guatemala. An. Mus. San Salvador 4 1909 (3-9 71-81). 1291

Röhne, Marius. Stæren. [The harmfulness of Sturnus vulgaris.] (Danish) København Haven 9 1909 (133-134).

Rorig, G. Magen- und Gewölluntersuchungen heimischer Raubvögel. Berlin Arb. biol. Anst. 7 1909 (473–520).

Rose, G. Birds of Ayrshire. Kilmarnock Ann. Ramb. Soc. 5 1907 (55– 80) 2 pls. 1294

Rosenkrantz, H. Turdus varius Pall. Guldrossel, ny for Danmarks Fauna. [T. varius new to the Danish fauna.] København Ornith. Tids. 3 1909 (113-114) 1 pl. 1295

Ross, E. D. A polyglot list of birds in Turki, Manchu and Chinese. Calcutta Mem. As. Soc. Beng. 2 1909 (253– 340). 1296

Rössler, E. Ornithologische Beobachtungen aus der Umgegend von Zagreb während des Jahres 1907. Ornith. Monatschr. Magdeburg 34 1909 (59-66 159-163).

Rössler, E. Ornithologische Beobachtungen aus der Umgegend von Zagreb während des Jahres 1908. Ornith. Monatschr. Magdeburg 34 1909 (420-424).

Rothe, H. H. Vom Turmsegler. (*Apus apus*.) Sanct Hubertus Cöthen 27 1909 (250–251). 1299

Rothschild, W. Description of a new Bird from Africa. Ibis London 1909 (690-691) pl. x. 1300

Rothschild, W. [New species and subspecies.] London Bull. Brit. Ornith. Cl. 23 1909 (102-103). 1301

Rothschild, W. [New species of Arboricola and egg of Megalapteryx huttoni.] London Bull. Brit. Ornith. Cl. 25 1909 (7-9). 1302

Rothschild, W. [Athopyga scheriae owstoni subsp. n.] London Bull. Brit. Ornith. Cl. 25 1909 (32). 1303

Rothschild, L. W. Unusual birds in Hertfordshire. Brit. Birds London 2 1909 (309). 1304 Rothschild, L. W. Note sur le Gypaète et les Aigles criards. Paris Rev. Fr. d'Orn. 1 1909 (105-106). 1305

Russ, Karl. Der Graupapagei. Seine Naturgeschichte, Pflege, Abriche tung und Züchtung. 2. gänzl. neubearb. u. verm. Aufl. Magdeburg (Creutz) 1909 (vii + 108) 1 Taf. 20 cm.

Ryan, James. The purple-rumped sunbird. Spolia Zeylan. Colombo 5 1908 (110-111). 1307

Ryan, James. Further notes on the birds of Dimbula. Spolia Zeylan. Colombo 5 1908 (109-110). 1308

Sage, Jno. H. The Black Gyrfalcon in Connecticut. Auk Cambridge Mass. 26 1909 (429-430). 1309

Sajovic, G. Ornithologika für das Jahr 1908. Laibach Carniola 2 1909 (50-53). 1310

Salvadori, T. Uccelli in Il Ruwenzori. Parte Scientifica. S.A.R. il Principe Luigi Amedeo di Savoia duca degli Abruzzi. Vol. i. Zoologia (155-163). Milano 1909 8vo. 1311

Salvadori, T. Piccola collezione di uccelli del Congo. Genova Ann. Museo Civ. st. nat. ser 3 4 1909 (320-326).

Salvadori, T. Nota intorno al Garrulus melanocephalus Gené. Torino Boll. Musei zool. anat. 24 No. 607 1909 (1-2).

Salvadori, T. Note on Corvus neglectus of Schlegel. Ibis London 1909 (134-137). 1314

Salzmann, E. Ornithologisches aus der Umgebung Gothas, 1907. Ornith. Monatschr. Magdeburg 34 1909 (192– 194). 1315

Salzmann, E. Winterbeobachtungen am Steinsperling und Anderes. Ornith. Monatschr. Magdeburg 34 1909 (357– 367 406-414). 1316

Sandberg, A. The fauna of the Barotse valley (cont.). Bulawayo Proc. Rhod. Sci. Ass. 8 1908 (94-98). 1317

Sandland, P. T. More new fosterparents. Emu Melbourne 8 1909 (156-151). 1318

Sandman, J. A. [Phalaropus hyperboreus L. i Finska viken.] [Phalaropus hyperboreus L. im Finnischen Meerbusen.] Helsingfors Medd. Soc. Fauna et Fl. Fenn. **35** 1909 (167; Deut. Ref.·329). **1319**

Sapsworth, A. D. The Peregrine Falcon on the Yorkshire cliffs. Brit. Birds London 3 1909 (52-55 127-128) 2 photographs.

Sarudny, N. Berichtigung. Ornith. Monatsber. Berlin 16 1908 (163).

F Sarudny, N. Cinclus tenuirostris korrejewi subsp. nov. Ornith. Monatsber. Berlin 17 1909 (19-20). 1322

Sarudny, N. Budytes citreoloides iranica subsp. nov. Ornith. Monatsber. Berlin 17 1909 (20-21). 1323

Sarudny, N. Ueber einen interessanten Pieper aus Turkestan. Ornith. Monatsber. Berlin 17 1909 (38-41 72). 1324

Sarudny, N. Anthus pratensis enigmaticus subsp. nov. aus dem russischen Turkestan. Ornith. Monatsber. Berlin 17 1909 (56). 1325

Sarudny, N. Mitteilung über eine neue Form des syrischen Spechts (Dendrocopus syriacus milleri subsp. nov.). Ornith. Monatsber. Berlin 17 1609 (81–82).

Sarudny, N. Kann man den Turkestanischen Myiophoneus temmincki (Vigors) als typische Form ansehen 7 Ornith. Monatsber. Berlin 17 1909 (166–168).

Sarudny, H. [wohl statt N.] Cinclus leucogaster triznae subsp. nov. Ornith. Monatsber. Berlin 17 1909 (180-181). 1328

Sarudny, N. vide etiam Zarudny.

Sass, Baron F. Allerlei aus der diesjährigen Horstsaison. N. Balt. Weidm.-blt. Riga 4 1908 (386–387).

Sassi, Moritz. Bemerkungen zu einigen von Herrn Nissl in Abessinien gesammelten Vogelspezies. Ornith. Monatsber. Berlin 17 1909 (84–85).

Sassi, Moriz. Liste der von A. Horn (Wien) in Zentralafrika gesammelten Vogelbälge. Mit Bemerkungen von A. Horn. Ornith. Monatsber. Berlin 17 1909 (106-109). 1331

Sassi, Moriz. Bemerkungen zu den von E. Weiske in Britisch-Neu-Guinca und Nord-Queensland gesammelten Vogelbälgen. J. Ornith. Leipzig 57 1909 (365-383). 1332

[Satunin, K. A.] Сатунинъ, К. А. Турачъ. [Das Frankolin.] Ochotn. věstn. Moskva 9 1909 1 (9–10) 2 (10–12).

[Satunin, K. A.] Сатунингь, К. А. Очерки природы Кавказа. VII. Экскурсія на вершину Анихъ-дангъ въ хребть Агридагъ. [Skizzen zur Naturbeschreibung des Kaukasus. VII. Eine Excursion auf den Gipfel des Aschich-dasch im Gebirgszuge Agridag.] Jestestr. i geogr. Moskva 14 1909 7 (1-17).

Saunders, A. A. The nesting of the Broad-tailed Hummingbird. Condor Hollywood Cal. 11 1909 (197). 1325

Saunders, H. A list of British Birds revised to July 1907. London (Gurney & Jackson) 1907 8vo (32). 1336

Saunders, W. E. Winter birds at Point Pelee. Ottawa Nat. 23 1909 (46-50).

Saunders, W. E. The rapid extermination of the Bald Eagle. Ottawa Nat. 23 1909 (116-117). 1338

Saunders, W. E. Notes on the birds of Durham, Ont. Ottawa Nat. 23 1909 (132-133).

Saunders, W. E. The Sharp-shinned Hawk migration. Ottawa Nat. 23 1909 (156-160). 1340

Saunders, W. E. Rare birds at Point Peleo. Ottawa Nat. 23 1909 (160– 162). 1341

Saunders, W. E. The third specimen of the summer Tanager (Piranya rubra) for Canada. Auk Cambridge Mass. 26 1909 (308-309). 1342

Saunders, W. E. The Acadian Flycatcher in Ontario. Auk Cambridge Mass. 26 1909 (430). 1343

Saunders, W. E. Summer birds of the southern edge of western Ontario. Wilson Bull. Oberlin Ohio 21 1909 (152-155).

Savile, L. H. The black-capped king-fisher (*Halcyon pileata*) in the Thana District. Bombay J. Nat. Hist. Soc. 19 1909 (260). 1345

Sawyer, E. J. A special bird-blind. Bird-Lore Harrisburg Pa. 11 1909 (71-73) 1 fig. 1346 TITLES. 5800

Saxtorph, Sylvester. Træk af Hejrens Liv. [Life history of Ardea cinerea.] København Ornith. Tids. 3 1909 (144-149).

Schäfer, E. A. Trækfuglenes vandringer. [Übersetzung.] [Der Vogelzug Übersetzung.] Bergen Naturen 33 1909 (106-114).

Schaffer, Alexander P. Ornithologisches aus Mariahof vom Jahre 1907. Ornith. Jahrb. Hallein 20 1909 (63-71).

Schaffer, Alex. und Noggler, Jos. Ornithologische Beobachtungen in Mariahof 1908. Ornith. Jahrb. Hallein 20 1909 (210-214). 1350

[Schalow, Hermann. Vorkommen von Lanius meridionalis im Harz?]
J. Ornith. Leipzig 57 1909 (229-230 236).

[Scharleman, E. W.] Шарлеманъ, Э. В. Синсокъ итинъ окрестностей Кіева. [Die Vögel der Umgebung von Kiev.] Kiev Zap. Obšč. jest. 21 1909 1 (183–207 + deutsch. Rés. 208–211) [N.B. Die Separata dieser Arbeit tragen den Autornamen Charlemagne.] 1352

Schenk, Jakab. Függelék "Az urali bagoly tömeges megjelenése Magyarországon 1906-07 telén" czimű körleményemhez. [Anhang zu meinem Artikel "Das massenhafte Erscheinen der Uraleule in Ungarn im Winter 1906-1907."] Aquila Budapest 15 1908 (323-325).

Schenk, Jakab. A pásztormadár megjelenése hazánkban. [Das Erscheinen des Rosenstares in Ungarn.] Pótf. Teimt. Közl. Budapest 41 1909 (111–114).

Schenk, Jakab. Az urali bagoly téli megjelenése hazánkban. [Die Wintererscheinung der Uraler Eule in Ungarn.] Termt. Közl. Budapest 41 1909 (117-119). 1355

Schenk, Jakab. A madárvonulás kisérleti vizsgálata és eredményei. [Experimentelle Untersuchung und Ergebnisse des Vogelzuges.] Termt. Közl. Budapest 41 1909 (311-322 353-364).

Schenk. Der Vogelzug in Ungarn im Frühjahre 1908. Aquila Budapest 16 1909 (1-128). 1357

Schenk. Bericht über die Vogelmarkierungen im Jahre 1909. Aquila Budapest 16 1909 (245-276). 1358 Schenk, J. Das Erscheinen und Brüten des Rosenstares in Ungarn im Jahre 1909. Aquila Budapest 16 1909 (294-299). 1359

Schenk, J. Gezeichneter weisser Storch in Italien. Aquila Budapest 16 1909 (310-311). 1360

Schenk, Jakob. Der Frühjahrszug des weissen Storches in Ungarn. Vortrag. . . J. Ornith. Leipzig 57 1909 (89-98) 1 Karte. 1361

Schlosser, Max. Die Bären- oder Tischoferhöhle im Kaisertal bei Kufstein. Unter Mitwirkung von F. Birkner und H. Obermaier. München Abh. Ak. Wiss. math.-phys. Kl. 24 1909 (385–506) 5 Taf. [Vogel pp. 436– 437].

Schlüter, Willy. Ein weisser Jagdfalke als Gast auf der Insel Sylt. Falco Halle 5 1909 (17-19) 1 Taf. 1363

Schmidt, R. Die Einweihung des Museum Heineanum in Halberstadt am 23. Sept. 1909. Zs. Oologie Berlin 19 1909 (121-123). 1364

Schmitz, Ernst P. Letzte Tagebuch-Notizen aus Madeira. Ornith. Jahrb. Hallein 20 1909 (58-63). 1365

Schmitz, Ernst. Von Jerusalem nach Latrun. Zs. Oologie Berlin 19 1909 (7-9). 1366

 Schmitz,
 Ernst.
 Oologische Tagebuchnotizen aus Palästina 1909.
 Zs.

 Oologie Berlin 19 1909-10 (97-99 114-117 129-132 145-148).
 1367

Schmitz, E. P. Albinismus und Melanismus in der Vogelwelt Madeiras. Ornith. Monatsber. Berlin 17 1909 (49-50). 1368

Schmitz, Ernst. Oologische Tagebuchnotizen aus Madeira. Zs. Oologie Berlin 18 1909 (181-182 188-189).

Schmitz, Ernst. Brüten der Madeirataube (Columba trocaz Hein.) in Gefangenschaft. Zs. Oologie Berlin 19 1909 (22-23).

Schmitz, Ernst. Vorläufiger Sammelbericht aus Palästina. Zs. Oologie Berlin 19 1909 (68-70). 1371

Schnee, A. G. vide Schummer, A. A.

Schnorr v. Carolsfeld, Ed. Ornithologische Beobachtungen im Frühjahr 908. München Verh. ornith. Ges. 9 (1908) 1909 (45-52). 1372

Schulz, G. E. F. Natur-Urkunden. Biologisch erläuterte photographische Aufnahmen frei lebender Tiere und Pflanzen. Heft 1. Vögel. Berlin (Paul Parey) 1908 l. 8vo (1-20) Taf. ixx. 1373

[Schulze, M. u. Andere. Zum Vorkommen der Löffelente in Deutschland.] D. Jägerztg. Neudamm 53 1909 (779– 780). 1374

[Schummer, A. A. and Schnee, A. G.]

HI ΜΜΕΡΈ, A. A. Η ΗΠΗΕΕ, A. Γ.

Κρατκιά περεчεπε πτιητε οκρεστισστεά
r. Κίεβιδ. [Short dist of birds of the vicinity of Kiev.] Herausg. v. d. Ges. d. Naturfr. in Kiev. Kiev 1909 (43
Russ. and Engl.). 23 cm. 1375

Schüpbach, P. Beiträge zur Anatomie und Physiologie der Ganglienzellen im Zentralnervensystem der Taube. Bern Med. Diss. 1905–06 (38) 1 Taf. 2 fig. 8vo. 1376

Schuster, Ludwig. Die Verbeitung der Turteltaube (*Turtur turtur*) im Vogelsberg. Zool. Beob. Frankfurt a. M. 50 1909 (181–182).

Schuster, Wilhelm. Unsere einheimischen Vögel. Nach ihrem wirtschaftlichen Wert (Nutzen und Schaden) beurteilt u. beschrieben. Mit einer Einleitung v. Paul Wemer. Anschliessend das neue deutsche Reichsvogelschutzgesetz vom 30. Mai 1908 mit Erklärungen u. Erläuterungen. Gera-Reuss (Heimatverl.) [1909] (xii+116) 32 Taf. 21 cm.

 Schuster,
 Wilhelm.
 Die Vögel des

 Offenbacher Museums.
 Offenbach Ber.

 Ver.
 Natk.
 43-50 (1901-1909) 1909 (1-55).

Schuster, Wilhelm. Die Feststellung der Zugperioden des sibirischen Tannenhähers und Simroths Pendulationstheorie. Zool. Anz. Leipzig 33 1909 (833–836).

Schuster, Wilhelm. Schwalbensterben 1909. Zool. Anz. Leipzig 35 1909 (93–95).

Schuster, Wilhelm. Der konservative Art-Eigensinn der Vögel. Uns. Welt Godesberg 1 1909 (132–142). 1382

Sclater, P. L. Increased fertility of the domestic fowl. Ibis London 1909 (192-193). Sclater, P. L. Remarks on the practice of attaching "Authorities" to the scientific names of animals. Ibis London 1909 (347-350). 1384

Sclater, P. L. [Obituary, Mr. W. H. Hudleston.] Ibis London 1909 (350-355). 1385

Sclater, P. L. [More marked Storks captured on migration.] Ibis London 1909 (567). 1386

Sclater, P. L. A short history of the British Ornithologists' Union. Ibis London Jubilee Supplement Vol. 1909 (19-64). 1387

Sclater, P. L. [Agapornis nigrigenis.] London Bull. Brit. Ornith. Cl. 25 1909 (11).

Sciater, P. L. [Commoner birds in Jamaica.] London Bull. Brit. Ornith. Cl. 23 1909 (70 71). 1389

Sclater, P. L. Picariae fam. Coliidae in Wytsman's Genera Avium. 6th part. Brussels 1906 4to. (6) 1 pl. 1390

Selater, P. L. Picariae fam. Galbulidae in Wytsman's Genera Avium. 10th part. Brussels 1909 4to. (7) 1 pl. 1391

Scott, H. H. Memoir on the Wedgetailed Eagle, Uroaetus audax (Latham). A study in Avian Osteology. Vietoria Museum Launeeston Tasmania 8vo (1-16) 2 pls.

Scovell, R. H. Mortality of Birds during migration. 18 1909 (78-79). Irish Nat. Dublin 1393

Seabra, A. F. de. Aves da exploração de Fr. Newton em Angola, subsidios para o conhecimento da destribuição geographica das aves d'Africa Occidental. Porto Ann. Sci. nat. 9 1905 (153-159).

Seabra, A. F. de. Vertebrados enviados da Zambezia (Africa Oriental) pelo missionario Rev. Luft Lopes. Aves. Broteria Lisboa 8 1909 (92–98).

Seabra, A. F. dc. Mammifères et Oiseaux capturés par le Dr. Percira do Nascimento dans l'Afrique Occidentale. Lisbonne Bull. Soc. Port. Sc. Nat. 2 1908 (41-44). 1396

Seeger, Joh. Heh. Willy, Höpfner, M. und Bieber, C. [Eudytes septentrionalis in Mitteldeutschland.] Ornith. Monatschr. Magdeburg 34 1909 (203-205).

TITLES. 5800

Selous, E. An observational diary on the nuptial habits of the Blackcock (*Tetrao tetrix*) in Scandinavia and England. Zoologist London 13 1909 (401– 413).

Semon, E. Notes critiques sur les trochilidés. i. Sur les Lampornis hendersoni Cory et prevosti Lesson. Rev. Fr. d'Orn. 1 1909 (9-10) pl.; ii. Sur le Thalurania coelina Bourcier et le Sapphironia luminosa Lawrence. t.c. (65-65).

Serle, W. Early appearance of the Swift. Ann. Scot. Nat. Hist. Edinburgh 1909 (183). 1400

Service, R. Bird notes. Dumfries Trans. Nat. Hist. Soc. 20 1909 (125-131). 1401

Seth-Smith, D. Foreign birds at the London Cage-bird Association's Show. Avicult. Mag. Brighton 7 1909 (108– 112).

Seth-Smith, D. Notes on my visit to Australia. Avicult. Mag. Brighton 7 1909 (133-140 161-165 209-214 256-260) and 3rd. ser. 1 1909 (24-28).

Seth-Smith, D. Notes on the Crystal Palace Bird Show. Avicult. Mag. Brighton 7 1909 (167-172). 1404

Seth-Smith, D. The Rainbow Bunting. Avicult. Mag. Brighton 7 1909 (220-221).

Seton, E. T. The birds of Manitoba. [in] A handbook to Winnepeg and the Province of Manitoba prepared for the 79th annual meeting of the British Association for the Advancement of Science 1909. Winnepeg (Publ. by the Local Executive Committee) 1909 sm. 8vo (birds pp. 191–227).

Sharpe, R. B. A Handlist of the Genera and Species of Birds. Vol. v. London (Printed by order of the Trustees) [of the British Museum] 1909 (xx + 694) 8vo. 1407

Sharpe, R. B. A note on *Molpastes* magrathi Whitehead. Ibis London 1909 (302-304) pls. v vi. 1408

Sharpe, R. B. [Himantornis whitesidei sp. nov.] London Bull. Brit. Ornith. Cl. 25 1909 (19).. 1409

Sharpe, R. B. and Chubb, C. Notes on a collection of Birds from Sandakan, N.E. Borneo. Ornis London 13 1909 (137-161). Shaw, W. A. The Birds of Northamptonshire and neighbourhood. Report for 1907. Northampton J. Nat. Hist. Soc. 14 1908 (178-181). 1411

Shaw, W. A. The birds of Northamptonshire and neighbourhood: Report for 1908. Northampton J. Nat. Hist. Soc. 15 1909 (19-21). 1412

Sheldon, Charles. List of birds observed on the upper Toklat river near Mt. McKinley, Alaska, 1907–1908. Auk Cambridge Mass. 26 1909 (66–70).

Sheldon, H. H. Notes on some birds of Kern county. Condor Hollywood Cal. 11 1909 (168-172). 1414

Sheppard, T. A. A list of, and notes on, birds collected and observed in the district of Beira, Portuguese S.E. Africa. Pretoria J. S. Afric. Ornith. Union 5 1909 (24-49).

Shipley, A. E. The ectoparasites of the Red Grouse (*Lagopus scoticus*). London Proc. Zool. Soc. 1909 (309-334) pls. xxxv-xlvii. 1416

Shipley, A. E. Internal parasites of birds allied to the Grousc. London Proc. Zool. Soc. 1909 (363-368). 1417

Shipley, A. E. The Tape-Worms (Cestoda) of the Red Grouse (Lagopus scoticus.) With a note by Wm. Bygrave, M.A. London Proc. Zool. Soc. 1909 (351-363) pls. lvi-lx. 1418

Shipley, A. E. The Thread-Worms (Nematoda) of the Red Grouse (Lagopus scoticus). London Proc. Zool. Soc. 1909 (335-350) pls. xlviii-lv. 1419

Shortridge, G. C. vide Ogilvie-Grant.

Shufeldt, R. W. Ostcology of Birds. [Accipitres (5-168) pls. 1-16; Gallinae (169-248) pls. 1-8; Anseres (249-344) pls. 1-2; Coccystes glandarius (345-357).] Albany Univ. N.Y. St. Educ. Dept. Mus. Bull. No. 130 1909 (381).

Shufeldt, R. W. On the comparative ostcology of the Passerine bird Arachnothera magna. London Proc. Zool. Soc. 1909 (527-544) pl. lxviii. 1421

Sich, H. L. Notes on a hybrid Grassfinch (Aidemosyne modesta × Peophila personata). Avicult. Mag. Brighton 7 1909 (166-167). 1422

Siddall, C. K. Notes on the breeding of the Great Tit. Brit. Birds London 3 1909 (186-187). 1423 N Sikes, F. H. Ornithological eccentricities. Rochester Nat. 4 1909 (49-59).

Silver, A. Dartford Warblers. Avicult. Mag. Brighton 1 1909 (30-32).

Šimek [Miloš] und Fritsch, Ant.
Ornithologische Notizen aus der Umgebung von Riva und Arco (Süd-Tirol).
Ornith. Jahrb. Hallein 20 1909 (143-148).

Simond, Aubert et Noc. Sur l'existence de la Spirillose des poules a la Martinique. Paris C. R. soc. biol. 66 (714-716). 1427

Simons, Aug. Ornithologische Beobachtungen im Jahre 1908. [Phänologisch, Westphalen.] Münster Jahresber. ProvVer. Wiss. 37 (1908-09) 1909 (50-51).

Smalley, F. W. Iceland Falcon in Scotland. Brit. Birds London 2 1909 (310-311). 1429

Smalley, F. W. Diseases in young Black-headed Gulls and Common Terns. Brit. Birds London 3 1909 (201-202).

Smalley, F. W. Notes on the seasonal change in the plumage of the Great Northern Diver (Colymbus glacialis). Ann. Scot. Nat. Hist. Edinburgh 1909 (139-144) pl. iii. 1431

Smalley, F. W. White-throated Sparrow (Zonotrichia albicollis) at the Flannan Isles, Scotland. Ann. Scot. Nat. Hist. Edinburgh 1909 (246-247).

Smallcombe, W. A. Downy Woodpecker (Dendrocopus pubescens) in Gloucestershire. Brit. Birds London 2 1909 (382).

Smith, A. P. Observations on some birds found in southern Mexico. Condor Hollywood Cal. 11 1909 (57-64). 1434

Smith, C. B. The display of the Monal Pheasant. Avicult. Mag. Brighton 7 1909 (160). 1435

Smith, C. B. Notes on Willow-Grouse (*Lagopus lagopus*). Avicult. Mag. Brighton 7 1909 (252-256). 1436

Smith, C. B. Sundhani [i.e., Rednecked Phalerope]. Avicult. Mag. Brighton 7 1909 (309-311) 1 photograph. 1437 Smith, C. B. The turning of the Turnstone. Avicult. Mag. Brighton 1 1909 (58-60). 1438

Smith, G. A naturalist in Tasmania. Oxford 1909 (1-152) 8vo. 1439

Smith, J. Lindsay. Occurrence of the Baikal or Clucking Teal (Nettion formosum) in the Punjab. Bombay J. Nat. Hist. Soc. 19 1909 (525). 1440

Smith, Middleton. Habits and northern range of the resident birds of Point Barrow. Report of the Eighth International Geographic Congress Washington D.C. 1904 1905 (641-646).

Smith, W. W. On the nesting habits of *Rhipidura flabellifera*. Wellington Trans. N. Zcal. Inst. 41 1909 (1-4).

Snethlage, E. Sobre uma colleccão de Aves do Rio Purús. Bol. Mus. Goeldi Para 5 1909 (43-76) map. 1443

Snethlage, E. Novas especies de Aves amazonicas das collecções do Museu Goeldi. Bol. Mus. Goeldi Para 5 1909 (437–448).

Snouckaert van Schauburg, R. C. E. G. J. Baron. Avifauna neerlandica, lijst der tot dusverre in Nederland in wilden staat waargenomen vogelsoorten. [Avifauna neerlandica, Liste der bis jetzt in den Niederlanden im wilden Zustande beobachteten Vogelarten.] Leeuwarden (Meijer & Schaafsma) 1908 (160) 12 Taf. 25 cm. 1445

Snouckaert van Schauburg, R. Baron. Eenige aanvullingen van mijne avifauna neerlandica. [Einige Ergünzungen zu meiner Avifauna neerlandica.] Amsterdam Versl. Med. Ned. Ornith. Ver. 6 1909 (64–69).

Snouckaert van Schauburg, R. Baron. Over een paar kleine zendingen van IJsland. [Ueber ein Paar kleiner Vogelsendungen von Island.] Amsterdam Versl. Med. Ned. Ornith. Ver. 6 1909 (56-64). 1447

Snouckaert van Schauburg, R. Baron. Ornithologie van Nederland, waarnemingen van 1 Mei 1908 tot en met 30 April 1909. [Ornithologie der Niederlande, Beobachtungen vom 1 Mai 1908 bis incl. 30 April 1909.] Helder Tijdschr. Ned. Dierk. Ver. Ser. 2 11 1909 (126-137); Amsterdam Verst. Med. Ned. Ornith. Ver. 6 1909 (15-26).

Snouckaert van Schauburg, Baron R. Ornithologische Notizen aus Holland. I. Mai 1907-30. April 1908. Ornith. Monatsber. Berlin 17 1909 (17-19).

Snouckaert van Schauburg, Baron R. Ornithologische Notizen aus Holland für den Zeitraum 1. Mai 1908-30. April 1909. Ornith. Monatsber. Berlin 17 1909 (177-180).

Snouckaert van Schauburg, R. vide Werner, W.

S[outhwell], T. Wild Bird Protection on the Norfolk Coast. Norwich Trans. Nat. Soc. 8 1909 (852-855).

Southwell, T. vide Gurney.

Speiser, P. Ektoparasiten des Fregattvogels (Fregata aquila). [In: Deutsche Südpolar-Expedition 1901-1903, Bd 10, H. 4.] Berlin (G. Reimer) 1909 (529-532). 35 cm. 1452

Speiser, P. Ektoparasiten der Vögel. J. Ornith. Leipzig 57 1909 (100-104).

Spruce, R. Notes of a Botanist on the Amazon and Andes. Edited by A. R. Wallace. [Migration of the Wood-Ibis (Tantalus loculator) pp. 373-376.] 2 vols. London (Macmillan) 1908 8vo [cf. Ibis 1910 p. 212].

- St. Quintin, W. H. The reported Great Bustard in Yorkshire. Zoologist London 13 1909 (113). 1455
- **St. Quintin,** W. H. The Waxwing. Avicult. Mag. Brighton **7** 1909 (115–119) 2 pls. **1456**
- St. Quintin, W. H. Nesting notes from Scampston for 1908. Avicult. Mag. Brighton 7 1909 (147–148). 1457
- St. Quintin, W. H. The Gargeny breeding in East Yorkshire. Naturalist London 1909 (38).

 Stansell, S. S. S. Birds of Stony

 Plain, Alberta.
 Ottawa Nat. 23 1909

 (125-127).
 1459

Stansell, Sidney S. S. Birds of central Alberta. Auk Cambridge Mass. 26 1909 (390-400). 1460

Stappers, L. Oiseaux [dans—Duc D'Orléans. La revanche de la Banquise. Un été de dérive dans la mer de Kara Juin-Septembre 1907]. Paris (Plon) 1909 4to (Oiseaux pp. 260–262).

Steavenson, R. vide Walker, H.

Stéphan, P. Les divisions de maturation dans les organes génitaux des Hybrides. Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° partie 1908 (687-690). 1462

Stephens, F. Notes on the California Black Rail. [Creciscus coturniculus.] Condor Hollywood Cal. 11 1909 (47– 49). 1463

Stephenson, T. The Crossbill migration. Naturalist London 1909 (398). 1464

Stephenson, T. Glossy Ibis at Whitby. Naturalist London 1909 (441-442). 1465

Stoll, F. E. Grosstrappen in Kurland. N. Balt. Weidm.-blt. Riga 4 1908 (466).

Stoll, F. E. Die Küstenornis der Insel Oesel. Riga Korr.-blt. Naturf. Ver. 52 1909 (101-130). 1467

Stone, Witmer. A review of the genus Piaya Lesson. Philadelphia Pa. Proc. Acad. Nat. Sci. 60 (1908) 1909 (492-501).

 Stone, W.
 The birds of New Jersey

 [in]
 Annual Report of the New Jersey

 Jersey
 State Museum 1908 1909 (11-347 409-419) pls. 84.

Stonham, C. The birds of the British Islands. With illustrations by Lilian M. Medland. In twenty parts. Pts. 13-15. London (Grant Richards) 1909 (515-650) pls. 198-250. 33 cm. 1470

Stonham, C. On the foot-pads of the young of the Green Woodpecker. Ibis London 1909 (619) text-fig. 11.

Stout, G. Yellow-browed Warbler in Dumfriesshire in Spring. Ann. Scot. Nat. Hist. Edinburgh 1909 (182–183).

Stubbs, F. J. The Use of Wind by Migrating Birds. Manchester Mem. Lit. Phil. Soc. 53 1909 No. 15 (1-9). 1473

Stubbs, F. J. Red Grouse, Heather and Crowberry. 3 1909 (86-88). Red Grouse, Heather British Birds London 1474

Stubbs, F. J. The meaning of bird's songs. Brit. Birds London 3 1909 (155-156).

Stubbs, F. J. Magpie marriages. Lancs. Nat. n.s. 2 (14-15). 1476 Stubbs, F. J. The song of the Red-Lancs. Nat. n.s. 2 (39-41). 1477

60 Aves.

Stubbs, F. J. The Dotterel near (76).Lancs. Nat. n.s. 2 Oldham. 1478

Stubbs, F. J. Birds on the Lancashire Coast. Lancs. Nat. n.s. 2 (83). 1479

Stubbs, F. J. The Dunlin near Oldham. Lancs. Nat. n.s. 2 (243-248).

Studer, Th. vide Fatio, V.

Sude, M. Storchnestergeschichten aus der Wetterau. Gefied. Welt Magdeburg 38 1909 (71).

Ornithologische Notizen Sude. M. aus der Wetterau. Gefied. Welt Magdeburg 38 1909 (166-167). 1482

Sundvik, Ernst Edv. Fosforsyra i frukterna hos Arctostaphylus uva ursi. [Phosphorsäure in den Früchten von Arctostaphylus uva ursi.] singfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (89-90, deutsch. Ref. 328 346). 1483

Die deutschen Suolahti, Hugo. Vogelnamen. Eine wortgeschichtliche Untersuchung. Strassburg (K. J. Trübner) 1909 (xxxiii + 540). 24 cm. 1484

S[uomalainen], E. W. Englantilainen kirjekyyhkynen tavattee Suomessa. [Englische Brieftaube in Finland gefunden.] Luonnon Ystävä Helsingfors 13 1909 (48-49). 1485

Suomalainen, E. W. Kaksi cläintictecllistä tiedonantoa. [Zwei zoologische Notizen.] Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (87-88, deutsches Ref. 328). 1486

Suomalainen, E. W. [Syrnium lapponicum Sparrm. Etetä-Suomessa.] [Syrnium lapponicum Sparrm. in Süd-Finland. Helsingfors Medd. Soc. Fauna et Fl. Fenn. 35 1909 (4, deutsches Ref. 329). 1487

Surface, F. M. vide Pearl, R.

[Suschkin, P. P.] Сушкинъ, П. П. Два направленія варіацій окраски у [Zwei Richtungen хищныхъ птицъ. im Variieren der Färbung bei den Raubvögeln.] Moskva Dnevn. XII. Raubvögeln.] Moskva Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910g. [Prot.] 1910 (283). 1488

Swarth, H. S. Distribution and molt of the Mearns Quail, with frontispiece, map and three photos. Condor Hollywood Cal. 11 1909 (39-43). 1489

Symons, Heugh S. Sarus crane (Grus antigone) in Salsette. Bombay J. Nat. Hist. Soc. 19 1909 (261). 1490

Symons, Heugh S. Occurrence of the lesser florican or likh (Sypheotis aurita) in the Konkan, Western India. Bombay J. Nat. Hist. Soc. 19 1909 (261).1491

Tandler, Julius vide Grosser, Oskar.

[Tarnani, I. K.] Тарнани, И. К. О перелеть перепеловъ. [Ucber den Zug der Wachteln.] Ochotn. věstn. Moskva 9 1909 (354-355).

Taschenberg, O. Historische Notizen über das Vorkommen einiger Vögel in Deutschland. Ornith. Monatschr. Magdeburg 34 1909 (335-340); Berichtigung v. [Joseph] Gengler, t.c. (372).

Taverner, P. A. Two Michigan Auk Cambridge Mass. 26 records. 1909 (83). 1494

Taylor, E. L. Notes from Cape Colony. Pretoria J. S. Afric. Ornith. Union 5 1909 (81-87).

Taylor, Thorne C., Woods, Hubbard and Fisher, Walter T. Capture of a Bald Eagle (Haliwëtus leucocephalus) near Chicago, Ill. Auk Cambridge Mass. 26 1909 (191).

Taylor, Walter P. An instance of hypridization in humming-birds, with remarks on the weight of generic eharacters in the Trochilidae. Cambridge Mass. 26 1909 (291-293).

Tenison, W. P. C. The stiff-tailed duck (Erismatura leucocephala) near Nowshera. Bombay J. Nat. Hist. Soc. 19 1909 (264).

Tenison, W. P. C. Flamingos in the N.W. Frontier Province. Bombay J. Nat. Hist. Soc. 19 1909 (525). 1499

Ternier, L. Rapport sur le congrès international de la chasse de Paris 1907. Ornis London 13 1909 (183-190).

Ternier, L. Les canards sauvages, blancs, bariolés et métis. Paris Rev. Fr. d'Orn. 1 1909 (18-20 34-36 50-53). Teschemaker, W. E. The nesting of the Cinnamon Tree-Sparrow.. Avicult. Mag. Brighton 7 1909 (205-208).

Teschemaker, W. E. Nesting of Pelzeln's Saffron Finch (Sycalis pelzelni). Avicult. Mag. Brighton 7 1909 (298-299).

Teschemaker, W. E. Nesting of the Rufous-backed Mannikin (Spermestes nigriceps). Avicult. Mag. Brighton 7 1909 (321-323). 1504

Teschemaker, W. E. Nesting of Jerdon's Accentor (Tharrhaleus jerdoni). Avicult. Mag. Brighton 7 1909 (359-362).

Teschemaker, W. E. Nesting of the Blue Grosbeak. Avicult. Mag. Brighton 1 1909 (64-65).

Thanner, Rudolf von. Falco barbarus auf Tenerife. Ornith. Jahrb. Hallein 20 1909 (148-150). 1507

Thayer, G. H. Concealing-coloration in the animal kingdom. An exposition of the laws of disguise through color and pattern: being a summary of Abbott H. Thayer's discoveries. New York (Macmillan Co.) 1909 4to (xix+260)73 pls. col. text illustr. 1508

Thayer, John E. Eskimo Curlew (Numenius borealis) taken at Newbury-port, Mass. Auk Cambridge Mass. 26 1909 (77).

Thayer, John E. Capture of the Ruff (Pavoncella pugnax) at Seabrook, N.H. Auk Cambridge Mass. 26 1909 (77).

Thayer, J. E. Some rare birds and sets of eggs from the Cape region of Lower California. Condor Hollywood Cal. 11.1909 (10-11).

Thayer, J. E. Limonites ruficollis [first record] in Alaska. Condor Hollywood Cal. 11 1909 (173). 1512

Thayer, John E. and Bangs, Outram. Descriptions of new birds from central China. Cambridge Mass. Bull. Mus. Comp. Zool. Harvard Coll. 52 1909 (137-141).

Thayer, John E. and Bangs, Outram. Description of a new subspecies of the Snowy Heron. Cambridge Mass. Proc. New Engl. Zool. Cl. 4 1909 (39 41).

1514

Thielemann, R. Wanderfalkenzug im Golf von Mexiko. Falco Halle 5 1909 (1-3). 1515

Thienemann, Gustav. Weisse Bussarde als Wintergäste. Ornith. Monatschr. Magdeburg 34 1909 (340-342).

Thienemann, J. viii. Jahresbericht (1908) der Vogelwarte Rossitten der Deutschen Ornithologischen Gesellschaft. J. Ornith. Leipzig 57 1909 (384-502 mit 3 Kart.).

Thienemann, I. Vogelwarte Rossitten. Ornith. Monatsber. Berlin 17 1909 (24-25 70-71). 1518

Thienemann, J. Vogelwarte Rossitten. Ornith. Monatsber. Berlin 17 1909 (117-118).

Thienemann, J. Vogelwarte Rossitten. Ornith. Monatsber. Berlin 17 1909 (150-152 181-182). 1520

Thienemann, J. Bericht über eine in der Nacht vom 16. zum 17. Oktober 1908 über Ostpreussen hinweggegangene aussergewöhnlich starke Zugwelle von Waldschnepfen (Scolopax rusticola). D. Jägerztg Neudamm 54 1909 (73-75 92-94 107-108 124-125 140-142 156-157).

Thienemann. Ueber die Resultate, welche von der Vogelwarte Rossitten mit markierten Nebelkrähen und Lachmöven bisher erzielt wurden. Königsberg Schr. physik. Ges. 49 (1908) 1909 (402-408).

Thienemann. [Marked Stork killed in S. Africa.] Ibis London 1909 (387). 1523

Thijsse, Jac. P. Octoberdagen en-nachten op Terschelling. [Oktobertage und -Nächte auf Terschelling, Beobachtungen über das Vogelleben.] Levende Natuur Amsterdam 13 1908 (148–151 161–164 182–185).

Thompson, H. C. Tasmanian notes. Emu Melbourne 8 1909 (153-154).

Thomson, A. L. Marking birds: notes on the work at the Rossitten Station. Brit. Birds London 2 1909 (362-367).

Thorpe, D. L. and Hope, L. E. Natural History record bureau (1908); the Museum, Carlisle. Zoologist London 13 1909 (187-194). 1527

Thorpe, D. L. Oedicnemus scolopax n Cumberland. Zoologist London 13 1909 (197-198). 1528

Ticehurst, C. B. The Greenland Wheatear (Saxicola oenanthe leucorrhoa (Gmelin)). Brit. Birds London 2 1909 (271-273). 1529

Ticehurst, C. B. The Wood-pigeon "Diphtheria." The results of the second "British Birds" enquiry. Brit. Birds London 3 1909 (213-214). 1530

Ticehurst, C. B. and Leigh, A. G. On the down-plumage and mouth-coloration of nestling birds. Brit. Birds London 3 1909 (151-154). 1531

Ticehurst, N. F. A history of the birds of Kent. London 1909 (lvi+558) 24 pls. map. 8vo. 1532

Ticehurst, N. F. Crossbills in Scotland and England. Brit. Birds London 3 1909 (82-83).

Ticehurst, N. F. Starlings' nesting sites. Brit. Birds London 3 1909 (118-120).

Ticehurst, N. F. vide Nicoll.

Ticehurst, N. F. vide Witherby.

Tinker, A. D. The Carolina Wren in Washtenaw county, Michigan. Auk Cambridge Mass. 26 1909 (434). 1535

Tippetts, K. B. A Heath Hen quest [Tympanuchus cupido]. Bird-Lore Harrisburg Pa. 11 (244-248). 1536

Tischler, F. Der Girlitz in Ostpreussen. Ornith. Monatsber. Berlin 17 1909 (82–83). 1537

Tischler, F. Branta ruficollis (Pall). in Ostpreussen erlegt. Ornith. Monatsber. Berlin 17 1909 (113). 1538

Tischler, F. Der Würgfalke (Falco sacer Gm.) in Ostpreussen. Ornith. Monatschr. Magdeburg 34 1909 (279–280).

Tischler, F. Zur Vogelwelt des Kinkeimer Sees. i. Nachtrag. Ornith. Monatschr. Magdeburg 34 1909 (239-241). 1540

Tischler, F. Neue Brutplätze von Parus borealis in Ostpreussen. Falco Halle 5 1909 (22-23). 1541

Tischler. Die Verbreitung einiger Vogelarten in Ostpreussen. Konigsberg Schr. physik. Ges. 50 1909 (313– 320). 1542 Todd, W. A. Bird notes from a London suburb. Selbourne Mag. 20 1909 (214-218).

Todd, W. A. Some ornithological notes from north-east Surrey. Zoologist London 18 1909 (231-233). 1544

Todd, W. E. Clyde. A new warbler from the Bahama islands. Washington D.C. Proc. Biol. Soc. 22 1909 (171-172).

Toepel, A. Nutzen des Neuntöters. Ornith. Monatschr. Magdeburg 34 1909 (306-307).

Toepel, A. [Frühe Ankunft der Schwalben 1909.] Ornith. Monatschr. Magdeburg 34 1909 (276). 1547

Tower, C. J. H. Osprey in Essex. Brit. Birds London 2 1909 (383). 1548

Townsend, Charles W. Some habits of the English Sparrow (Passer domesticus). Auk Cambridge Mass. 26 1909 (13-19).

Townsend, Charles W. The position of birds' feet in flight. Auk Cambridge Mass. 26 1909 (109-116). 1550

Townsend, Charles W. Labrador notes. Auk Cambridge Mass. 26 1909 (201). 1551

Townsend, Charles W. The use of the wings and feet by diving birds. Auk Cambridge Mass. 26 1909 (234-248). 1552

Townsend, Charles W. A Carolina Wren (Thryothorus ludovicianus) invasion of New England. Auk Cambridge Mass. 26 1909 (263-269). 1553

Townsend, Charles Wendell. The birds. In: Grenfell, W. T. and others. Labrador: The country and the people. New York (Macmillan) 1909 (374-390).

Townsend, Charles W[endell] and Allen, Glover M. List of the birds of Labrador. With brief annotations. In: Grenfell, W. T. and others. Labrador: The country and the people. New York (Macmillan) 1909 (469-479).

Townsend, Charles W. and Hardy, John H., jun. A note on the English Sparrow (Passer domesticus). Auk Cambridge Mass. 26 1909 (78-79).

Trevor-Battye, A. Some Great Bustards. Avicult. Mag. Brighton 7 1909 (184-192). 1557

Trevor-Battye, A. The Water Rail in Hampshire. Avicult. Mag. Brighton 7 1909 (196-198). 1558

Trotter, Spencer. The geological and geographical relations of the land-bird fauna of north-eastern America. Auk Cambridge Mass. 26 1909 (221–233).

Trotter, Spencer. An inquiry into the history of the current English names of North American land birds. Auk Cambridge Mass. 26 1909 (346– 363).

Trumbull, J. Ringed Plover 700 miles from land. Irish Nat. Dublin 18 1909 (27).

Tryon, H. The Spine-tailed Swift (Chaetura caudacuta) and its food. Queensl. Nat. Brisbane 1 1908 (38-39).

Tryon, H. On birds observed during the excursion to Sankey's scrub, 8th August, 1908. Queensl. Nat. Brisbane 1 1908 (56-58).

Tryon, H. vide Weatherill, W. E.

Tschusi zu Schmidhoffen, Viktor Ritter von. Der Zug des Steppenhuhnes, Syrrhaptes paradoxus, nach dem Westen 1908; mit Berücksichtigung der früheren Züge. Hermanstadt Verh. Mitt. siebenb. Ver. Naturw. 58 1909 (1-41).

Tschusi zu Schmidhoffen, Viktor Ritter von. Ueber palaearktische Formen. xiv. Carduelis carduelis rumaeniae subsp. nov. Ornith. Jahrb. Hallein 20 1909 (76–77).

Tschusi zu Schmidhoffen, Viktor Ritter von. Bibliographia ornithologica salisburgensis. (Die ornithologische Literatur Salzburgs.) Salzburg Mitt. Ges. Salzb. LdKdc. 49 1909 (179–194).

Tschusi zu Schmidhoffen, Victor Ritter von. Über den heurigen Massenzug des Kreuzschnabels. Ornith. Monatsber. Berlin 17 1909 (169–171).

Tschusi zu Schmidhoffen, Viktor Ritter von. Vorläufiges über den heurigen Steppenhühnerzug. Nachtrag 1-3. Ornith. Monatschr. Magdeburg 34 1909 (53-59 199-202 434-440). Tschusi zu Schmidhoffen, Viktor Ritter von. Ankunfts- und Abzugsdaten bei Hallein (1908). V. Ornith. Monatschr. Magdeburg 34 1909 (272– 276).

Tschusi zu Schmidhoffen, Viktor Ritter von. Grosser Kreuzschnabelzug. Ornith. Monatschr. Magdeburg 34 1909 (441).

Tschusi zu Schmidhoffen, Viktor Ritter von. Von meinem Mauerseglerpaar (Apus apus L.) 1909. Ornith. Monatschr. Magdeburg 34 1909 (441– 442).

Tschusi zu Schmidhoffen, Viktor Ritter von. Ornithologische Kollektaneen aus Oesterreich-Ungarn. (Aus Jagdzeitungen und Tagesblättern. XVIII. 1908.) Zool. Beob. Frankfurt a. M. 50 1909 (199–207 233–242).

Tschusi zu Schmidhoffen, Vietor Ritter von. Leben und Treiben des Tannenhehers. Skizze aus den Alpenländern Oesterreichs. Berajah Halle 1909 (1-3).

Tschusi zu Schmidhoffen, Victor Ritter von. Der Zug des Rosenstars, Pastor roseus (L.) im Jahre 1908. Falco Halle 5 1909 (8-12).

[Tugarinov, A.] Тугариновъ, А. О ибкоторыхъ повыхъ и ръдкихъ птицахъ Енисейской губернии. [Uber einige neue und seltene Vögel des Gouv. Jenisscisk.] Naša ochota St. Peterburg 3 1909 11 (95–99).

Tulloch, J. S. Long-eared Owls near Lerwick, Shetland. Ann. Scot. Nat. Hist. Edinburgh 1909 (115).

Tur, Jan. Doświadczenia nad wpływem promieni radu na rozwój kaczki (Anas dom). [Expériences sur l'influence exercée par les rayons du radium sur les embryons du canard (Anas dom).] Warszawa Spra. Tow. Nauk. 2 1909 (95–116). [1577]

Turner, E. L. Ruffs in Norfolk. Brit. Birds London 3 1909 (29-30).

Turner, E. L. A remarkable incident in the life-history of the Water-Rail. Brit. Birds London 3 1909 (65-68) plates 3-10. 1579

Turner, E. L. vide Crouch.

Turner, H. J. Aves [in] A survey and record of Woolwich and West Kent, edited by C. H. Grinling, T. A. Ingram, M.A., LL.D., and B. C. Polkinghorne, B.Sc. F.C.S. Woolwich (Labour Representation Printing Co.) 1909 8vo (birds pp. 237-255).

Tusch, P. Interessante Beobachtungen. N. Balt. Weidm.-blt. Riga 5 1909 (396).

Tyler, J. G. Some notes from Fresno county, California. Condor Hollywood Cal. 11 1909 (81-84).

[Ušakov, V. Е.] Ушаковъ, В. Е. Бълыя куропатки. [Die weissen Rebhühner.] Naša ochota St. Peterburg 1909 I (90-100). 1583

[Ušakov, V. Е.] Ушаковъ, В. Е. Малый Кроншненъ (Numenius tenuirostris Viell.). [Numenius tenuirostris Viell. [im Gouv. Tobolsk].] Naša ochota St. Peterburg 1909 2 (92–95).

Ušakov, V.] Ушаковъ, В. Турпанъ и охота на пего. [Ueber Fuligula fusca und deren Jagd.] Naša ochota St. Peterburg 3 1909 12 (67-71). 1595

[Ušakov, V.] Ушаковъ, В. Еще о бекасовидиомъ верстенникъ. [Weiteres über den bekassinenartigen Wasserläufer.] Semja ochotn. Moskva 1909 (160–161).

Ussher, R. J. A list of Irish birds, showing the species contained in the National Collection. National Museum of Science and Art Dublin 1908 8vo (54).

Ussher, R. J. Birds seen from the "Helga" off the south-west coast. Irish Nat. Dublin 18 1909 (80). 1588

Ussher, R. J. Some unrecorded birds of prey. Irish Nat. Dublin 18 1909 (100).

Ussher, R. J. Nests of land-birds in holes on marine islands. Irish Nat. Dublin 18 1909 (159). 1590

Ussher, R. J. and Dewar, D. The use of domed nests. Irish Nat. Dublin 18 1909 (223-224).

Vallon, G. Escursioni ornitologiche nel Friuli. Avicula Siena 12 1909 (4-19 25-34).

Vasse, G. Trois années de chasse au Mozambique. Ouvrage illustré de 55 gravures tirée hors texte et d'une carte. Paris 8vo. (1-192) 1593

Vaucher, M. A. Note sur le Circaëtus gallicus (Gmelin). Paris Rev. Fr. d'Orn. 1 1909 (84-86).

Vaughan, A. G. vide Owen.

[Veližanin, A.] Велижанинъ, А. Новое о бекасовидномъ верстенникъ. [Neues über den bekassinenartigen Wasserläufer.] Naša ochota St. Peterburg 1909 3 (115–121).

Venables, E. P. The Burrowing Owl (*Cunicularia hypogaea*). Ottawa Nat. 22 1909 (261). 1596

Venturi, S. vide Hartert.

Verner, W. My life among the wild birds in Spain. London (John Bale Sons & Danielsson Lmt.) 1909 8vo. (xvi + 468) 23 cm. 1597

Verrill, A. E. and Verrill, A. Hyatt. Notes on the birds of San Domingo, with a list of the species, including a new hawk. Philadelphia Pa. Proc. Acad. Nat. Sci. 61 1909 (352-366).

Victor, F. M. Ornithophaenologische Tagebuch-Notizen aus Latrun. Aquila Budapest 16 1909 (238-244). 1599

[Viktorov, Konstantin.] Викторовъ, Константинъ. Охлаждающее дъйствіе воздухоносныхъ полостей у птицъ. [Ueber die abkühlende Wirkung der Luftsäcke bei den Vögeln.] Kazanī Zap. veterin. Inst. 26 1909 (454-475).

Visher, Stephen Sargent. A list of the birds of western South Dakota. Auk Cambridge Mass. 26 1909 (144-153). 1601

Visher, S. S. The capture of the Red-eyed Cowbird (*Tangavius aneus involucratus*) in Arizona. Auk Cambridge Mass. 26 1909 (307).

Vitali, Giovanni. L'articolazione mandibolare negli Anfibi, nei Rettili e negli Uccelli. Note anatomoembriologiche. Anat. Anz. Jena 34 1909 (207-224).

Viton, L. De la destruction des petits oiseaux dans le sud-ouest [de France]. Paris Rev. Fr. d'Orn. 1 1909 (86-87).

Voigt, A. Dr. Eugène Rey, Nachruf. Ornith. Monatschr. Magdeburg 34 1909 (454-459). 1605 Voigt, A. Excursionsbuch zum Studium der Vogelstimmen. Praktische Anleitung zum Bestimmen der Vögel nach ihrem Gesange. 5. verm u. verb. Aufl. Leipzig (Quelle & Meyer) [1909] (326). 19 cm. 1606

Voigt, W. Ornithologische Beobachtungen vom Mittelmeer. Wien Mitt. Oest. RehsBd. Vogelk. 9 1909 (91-93).

Volz, Walter. Über die Ornithologie der Sandwich-Iuseln. Ornith. Beob. Bern 4 1905 (98–102). 1608

Volz, Walter. Ucher die Lalangane (Collocalia fuciphaga Thunb.). Ornith. Beob. Bern 4 1905 (145-153). 1609

Volz, Walter. Ornithologische Reiseskizzen aus Sierra Leone. Ornith. Beob. Bern 6 1908 (36-40 53-56 69-72 86-89 100-103 116-118).

Vries, T. G. de. Aves Frisicae. Lijst van Friesche vogelnamen. [Aves Friesicae, Liste der friesischen Vogelnamen.] Amsterdam Versl. Med. Ned. Ornith. Ver. 6 1909 (28-56). 1611

Waase, Karl. Systematische Uebersicht der Vogelwelt des Kreises Ruppin. (Zugleich ein Beitrag zur Heimatkunde.) Zs. Oologie Berlin 18 1909 (155-160 173-177 190-194).

Wade, E. W. and Clarke, W. J. The Percgrine Falcon on the Yorkshire cliffs. Brit. Birds London 3 1909 (85– 86).

Wade, E. W. On the status of the Stone Curlew in Yorkshire. Naturalist London 1909 (11-16). 1614

Wadén, D. J. Meddelande från Lill-Hütis jaktvårdsområde för år 1906. Mitteilung über das Jagdrevier Lill-Hütis im Jahre 1906.] F. Jakttidn. Helsingfors 2 1907 (246–248). 1615

Wadén, D. J. Meddelande från Lill-Hütis jaktvårdsområde för år 1907. [Mitteilung über das Jagdrevier Lill-Hütis im Jahre 1907.] F. Jakttidn. Helsingfors 3 1907 (43-47).

Wadén, D. J. Meddelande från Lill-Hütis jaktvårdsområde för 1908. Mitteilung über das Jagdrevier Lill-Hütis im Jahre 1908.] F. Jakttidn. Helsingfors 4 1909 (83–86 102–105).

Waite, E. R. [Aves, pp. 551-584 in] The subarctic islands of New Zealand. Reports on Zoology etc. . . of the (N-11091 q) islands lying to the south of New Zealand based mainly on observations and collections made during an expedition in the Government Steamer Hinemoa (Capt. J. Bollous) in November 1907. Wellington N.Z. (Pub. by the Philosophical Institute of Canterbury) 2 vols 1909 sm. 4to.

Walker, H., Carter, C. S., Steavenson, R. and Fortune, R. The Crossbill migration. Naturalist London 1909 (344).

Walpole-Bond, J. Notes from Sussex. Brit. Birds London 2 1909 (376-377). 1620

Walpole-Bond, J. Pochard nesting in North Kent. Brit. Birds London 2 1909 (383-384).

Walpole-Bond, J. The Lesser Redpoll in Sussex. Brit. Birds London 3 1909 (20-25). 1622

Walpole-Bond, J. The Redstart in Sussex. Brit. Birds London 3 1909 (26). 1623

Waniczkówna, Helena. Przyczynek do histologii worków powietrznych u ptaków. [Contribution à l'histologie des sacs aériens chez les oiseaux.] Kosmos Lwów 34 1909 (1-38). 1624

Warren, Edward R. Concerning Thryomanes bewicki cryptus in Colorado. Auk Cambridge Mass. 26 1909 (311-312).

Warren, E. R. Notes on the birds of south-western Montrose county, Colorado. With one map. Condor Hollywood Cal. 11 1909 (11-17). 1626

Warren, R. Some bird-notes from Ballina. Zoologist London 13 1909 (227-228). 1627

Wasmuth, P. Aufzählung aller bisher für Estland festgestellten Vogelarten nebst neuen Beiträgen zur Kenntnis der ornithologischen Fauna Estlands. Riga Korr.-blt. Naturf. Ver. 52 1909 (29-72).

Watt, H. B. Bibliography of London Birds. Zoologist London 13 1909 (15– 16). 1629

Weatherill, W. E. Description of a new Pseudogerygone from south-east Queensland. Queensl. Nat. Brisbane 1 1908 (74-75); also Emu Melbourne 9 1909 (26-28). 1630

e 14

W[eatherill], W. E. and Tryon, H. Ornithology [of an] excursion to Bulwer, Moreton Island, 12th-14th September, 1908. Queensl. Nat. Brisbane 1 1908 (67-69).

Weber, J. A. The Virginia and Sora Rails nesting in New York City. Auk Cambridge Mass. 26 1909 (19-22).

Weber, J. A. Capture of the Shortbilled Marsh Wren (Cistothorus stellaris) on Long Island, N.Y. Auk Cambridge Mass. 26 1909 (82). 1633

Weber, J. A. Blue-gray Gnatcatcher (Polioptila cærulea) in Washington county, N.Y. Auk Cambridge Mass. 26 1909 (82-83). 1634

W[ecksell], J. A. Variksen albinosmuoto. [Albinos-Form von Corvus cornix.] Luonnon Ystävä Helsingfors 13 1909 (47-48). 1635

Wehrmann, Sarah. Sur l'action pathogène des Helminthes d'oiseaux. Arch. parasit. Paris 13 1909 (204-238). 1636

Weibull, V. Hvor mange Unger faar Musvaagen (Buteo vulgaris) flyvende. [Researches on the number of fully developed young in Buteo vulgaris.] København Ornith. Tids. 3 1909 (161-162).

Weigold. Eine Saxicola stapazina auf Helgoland erlegt! Ornith. Monatsber. Berlin 17 1909 (113). 1638

Weigold. Kreuzschnäbel-Invasion auf Helgoland. D. Jägerztg Neudamm 53 1909 (603–604); Bemerkungen dazu v. Tschusi zu Schmidhoffen u. Otto Hesse, t.c. (665–666). 1639

Weigold, H. Zur diesjährigen Kreuzschnabelinvasion. D. Jägerztg Neudamm 54 1909 (345-347). 1640

Weinland, D. F. Einige Tatsachen zum Vogelschutz. Ornith. Monatschr. Magdeburg 34 1909 (287–291). 1641

Wells, C. H. Little Owl breeding in Derbyshire. Brit. Birds London 3 1909 (84).

Wemer, Paul. Frühzeitige Ankunft der Turmschwalben (Apus apus (L.)). Ornith. Monatschr. Magdeburg 34 1909 (370-371).

Wemer. Tabelle über Ankunft einiger westf[älischer] Brutvögel. Vogelfreund Münster 5 1909 (51). 1644 Wemer, Paul. Ueber Gelege und Nester des grünfüssigen Teichhuhns, Gallinula chloropus L. Vogelwelt Münster 5 1909 (86-87). 1645

Wenninger, F. J. The economic value of birds. Notre Dame Ind. Amer. Midl. Nat. 1 1909 (105-109).

Wenzel, Karl. Bernhard Christian Otto, Pommerns frühester Ornithologe. Zs. Ornith. Stettin 33 1909 (17-20 33-36 50-54). 1646a

Werber, E. J. und Goldschmidt, W. Regeneration des Schnabels bei der Hausgans (Anser cinereus) und bei der Hauscnte (Anas boschas). Arch. EntwMcch. Leipzig 28 1909 (661-677) 1 Taf. 1647

Werner, Otto. Der Urubu (Cathartes urubuVicill.) Wien Mitt. Oest. RchsBd. Vogelk. 9 1909 (27-28 36-38). 1648

Werner, Otto. Die im Staata Santa Catharina lebenden Drosseln. Wien Mitt. Oest. RchsBd. Vogclk. 9 1909 (113-116122-124). 1649

Werner, W. Ueber Blaukehlehen und Goldhähnehen. Zs. Oologie Berlin 19 1909 (45-46 56-59). 1650

Werner, W. Der Waldlaubsänger, Phylloscopus sibilatrix (Behstn.). Zs. Oologie Berlin 19 1909 (87-90); Bemerkung dazu v. R. Snouckaert van Schauburg, t.c. (109-110). 1651

Wessner, P. Gebirgsstelze bei Jena. Ornith. Monatschr. Magdeburg 34 1909 (277-278).

Wetmore, A. Fallnotes from Eastern Kansas. Condor Hollywood Cal. 11 1909 (154-164). 1653

Weyher, Ch. Oiseaux et Aéroplanes. Rev. gén. sci. Paris 19 1908 (974-978).

Wharton, William P. The Clapper Rail in Essex county, Mass. Auk Cambridge Mass. 26 1909 (76-77).

Whitaker, J. vide Kempsey.

White, H. L. [Nesting habits of Corcorax.] Emu Melbourne 8 1909 (150).

White, S. A. Narrative of the Expedition promoted by the Australian Ornithologists' Union to the Islands of Bass Strait. Emu Melbourne 8 1909 (195-207) pls. 15-17.

67 Aves.

Whitehead, C. H. T. On the birds of Kohat and Kurram, Northern India. With an introduction by Major H. A. F. Magrath. Ibis London 1909 (90-134 214-286) pl. iii map.

Whitehead, C. H. T. Additions and Corrections to the "Birds of Kohat." Ibis London 1909 (620-623). 1659

Whitlock, F. L. Notes on birds observed on the Pilbarra Goldfield, North-Western Australia. Emu Melbourne 8 1909 (173-194). 1660

Whymper, C. Egyptian Birds; for the most part seen in the Nile valley. London (A. & C. Black) 1909 (x + 221) 51 col. plates. 22 cm. 1661

Wichtrich, Paul. Zum Tode Dr. Eugène Rey's. Ornith. Monatsber. Berlin 17 1909 (145-147). 1662

Widmann, O. A second record for the Fulvous Tree-duck (*Dendrocygna* fulva) taken in Missouri. Auk Cambridge Mass. 26 1909 (304). 1663

Widmann, O. Summer birds of Shaw's Garden. St. Louis Mo. Rep. Missouri Botan. Garden 20 1909 (41–80) pl. 1.

Wiemeyer, B. Ornithologische Notizen aus Warstein in Westfalen. Bonn SitzBer. Ges. Natk. 1908 1909 Bot.-zool. Ver. (47-50). 1665

Wiemeyer, B. Botanische und Zoologische Notizen aus Lembeck, Kreis Recklinghausen. Münster Jahresber. ProvVer. Wiss. 37 (1908-09) 1909 (51-53).

Wigand, Paul. Ein Beitrag zur Entwicklung und Charakteristik der Spechte. Bern Phil. Diss. 1905-06 (30) 8vo. 1667

Willard, F. C. Nesting of the Arizona Junco. Condor Hollywood Cal. 11 1909 (129-131). 1668

Willard, F. C. The Flammulated Screech Owl. Condor Hollywood Cal. 11 1909 (199-202). 1669

Willett, G. Bird notes from the coast of San Luis Obispo county. . Condor Hollywood Cal. 11 1909 (185–187).

Williams, A. The White Wagtail (Motacilla alba) in County Dublin. Irish Nat. Dublin 18 1909 (121-122). Williams, E. M. Vergleichend anatomische Studien über den Bau und die Bedeutung der Oliva inferior der Säugetiere und Vögel. Arb. neurol. Inst. Wien Leipzig 17 1908 (118–149).

Wilson, D. W. Bird-life in early Scottish literature. Edinburgh Trans. F. Nat. Soc. 6 1909 (141-149). 1673

Wilson, R. S. and H. W. The Stock-Dove (Columba oenas Linn.) in the Clyde area. Glasgow Nat. 1 1909 (101-110).

Wilson, W. Albino Carrion Crow in Yorkshire. Naturalist London 1909 (131). 1675

Winge, Herluf.
danske Fyr i 1907; 25 Aarsberctning
om danske Fugle.
Danish lighthouses in 1907, 25th
annual report.] København Nath.
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7 1676

Witherby, H. F. [Birds from Egypt.] London Bull. Brit. Ornith. Cl. 23 1909 (97). 1677

Witherby, H. F. Irish birds. Brit. Birds London 2 1909 (276). 1678

Witherby, H. F. Bulwer's Petrel in Sussex. Brit. Birds 2 1909 (282-283)' with photo. 1679

Witherby, H. F. Two Norfolk Levantine Shearwaters. Brit. Birds London 2 1909 (313).

Witherby, H. F. Marking birds. The "British Birds" scheme. Brit. Birds London 3 1909 (4-6). 1681

[Witherby, H. F.] The irruption of Crossbills. Brit. Birds London 3 1909 (162-163 190-194 226-228) pl. 13 map. 1682

Witherby, H. F. Marking birds. Progress of the "British Birds" scheme. Brit. Birds London 3 1909 (179–182 219–220).

Witherby, H. F. Sequences of plumages in British Birds. i. Introductory. Brit. Birds London 3 1909 (209-212).

Witherby, H. F. and Ticehurst, N. F. On the more important additions to our knowledge of British Birds since 1899. Brit. Birds 2 1909 (267-270 305-308 327-334 368-375 406-421).

Witherby, H. F. vide Borrer.

Witherington, G. Snipe perching. Brit. Birds London 3 1909 (59). 1686

Wolcott, R. H. An analysis of Nebraska's fauna. Proc. Nebraska Ornith. Union 4 1909 (25-55) 6 pls. (ef. Auk 26 p. 447).

Woltag. Einiges über die Vogelfauna Ostafrikas. Königsberg Sehr. physik. Ges. 50 1909 (55-56). 1688

Wood, J. Claire. Pine Siskins and winter Bobolinks. Auk Cambridge Mass. 26 1909 (192-193). 1689

Wood, J. Claire. First appearance of the Sanderling in the vicinity of Detroit. Auk Cambridge Mass. 26 1909 (427).

Wood, Norman A. Notes on the occurrence of the Yellow Rail in Michigan. Auk Cambridge Mass. 26 1909 (1-5).

Woodruff, F. M. The birds of the Chicago Area. Chicago Bull. Acad. Sci. No. 6 1907 (222) 12 pls. 1692

Woods, Hubbard vide Taylor, Thorne C.

Wormald, H. The Californian Quail. Avicult. Mag. Brighton 7 1909 (145-147) pl. 1693

Wormald, H. Colour of Redpolls in confinement. Avieult. Mag. Brighton 7 1909 (359).

Wormald, H. A tame Snipe and its habits. Brit. Birds London 2 1909 (249-258) 8 figs. 1695

Workman, W. H. Bird notes from the Tyrol. Zoologist London 13 1909 (30-32). 1696

Wright, A. H. vide Reed, H. D.

Wright, H. W. Birds of the Boston Public Garden. A study in migration, With an Introduction by Bradford Torrey and illustrations. Boston and New York (Houghton Mifflin) 1909 12mo (xx + 238).

Wright, Horace W. A nesting of the Blue-winged Warbler in Massachusetts. Auk Cambridge Mass. 26 1909 (337-345). 1698

Wright, H. W. An ornithological trip to Los Coronados islands, Mexico. Condor Hollywood Cal. 11 1909 (96– 100) 3 figs. 1699 Wurm, W. Kritische Naturgeschichte des Auerwildes. Ein Vermächtnis an die Naturforschung und an das veredelte Weidwerk. Berlin (P. Parey) 1909 (95). 20 cm. 2,50 M.

Wurm. Zur Wasseramselfrage. Ornith. Monatschr. Magdeburg 34 1909 (304-305). 1701

Wymetal, Friedrich. Die Elster (Pica pica L.) in den Akazienwäldehen von Bratelsbrunn in Südmähren. Brünn Ber. Lehrerklubs f. Naturkde. 9 1907 u. 1908 1909 (51-55). 1702

Yngve-Sjöstedt. Von der schwedischen zoologischen Kilimandscharo-Expedition. Die Vogelwelt der Steppenseen. D. KolZty Berlin 26 1909 (432-433).

[Zarudny, N.] Зарудный, Н. Оринтологическія зам'ятки. [Ornithologische Notizen.] Naša ochota St. Peterburg 3 1909 12 (122-123). 1704

[Zarudny, N.] Зарудный, Н. Замѣтка о зунелѣ (Gallinago major Cm.) изъ Туркестана. [Notiz über die Doppelsehnepfe (Gallinago major Cm.) aus Turkestan.] Semja ochotn. Moskva 1909 (12–13).

[Zarudny, N.] Зарудный, Н. Предварительная замётка о нёкоторыхъ фазанахъ изъ бассейна Аму-Дарьи. [Vorläufige Mitteilung über einige Fasanen aus dem Gebiet des Amu-Darja.] Semja ochotu. Moskva 1909 (127-129).

[Zarudny, N.] Зарудный, Н. Замѣтка о повомъ видѣ фазана. [Notiz über eine neue Fasanenart.] Semja oehotn. Moskya 1909 (141-143). 1707

[Zarudny, N.] Зарудный, Н. Замьтка объ фазанахъ изъ Ферганы. [Bemerkung über Fasanen aus Ferghana.] Semja ochotn. Moskva 3 1909 (352–353).

Zarudny, H. vide etiam Sarudny.

Zdobnitzky, Franz. Das Winterleben unserer Corviden (insbesondere von Corvus frugilegus L.) in der weiteren Umgebung Brünns. Brünn Zs. Mähr. LdMus. 7 1907 (98-124). 1709

Zdobnitzky, Franz. Beitrag zu einer Ornis der Brünner Umgebung. II. Teil. Brünn Zs. Mähr. LdMus. 9 1909 (176-276). 1712

Zdobnitzky, Franz. Beitrag zu einer Ornis der Brünner Umgebung. I. Teil. Gesammelte Beobachtungen aus den Jahren 1900-1908. Brünn Mitt. Komm. naturw. Durchf. Mährens. Zool. Abt. 1908 Nr. 14 (60).

Zedlitz, O. Graf. Ornithologische Beobachtungen aus Tunesien, speziell dem Chott-Gebietc. J. Ornith. Leipzig 57 1909 (121–211 241–322) 1 Karte.

Zelizko, J. V. Diluvialni fauna od Volyně v jižních Čechách. (Aves p. 12). Prag Rozpr. České Ak. Frant. Jos. Trida 2 18 1909 art. No. 9 (1-15); Diluviale Fauna von Wolin in Südböhmen [Aves pp. 158-159]. Prag. Bull. Ac. Sci. Franç. Jos. 14 1909 (147-162).

Zimmermann, Rud. Einige Beobachtungen über die gefiederten Feinde der Lärchenminiermotte. Ornith. Monatschr. Magdeburg 34 1909 (352-357).

Zimmermann, Rud. Ornithologische Wandertage in der Lewitz. Zool. Beob. Frankfurt a. M. 5 1909 (142– 149 167–175). 1715

Zimmermann, Rud. Ein Beitrag zur wirtschaftlichen Bedeutung des Hühnerhabichts. Zs. Ornith. Stettin 33 1909 (66-68). 1716

Zimmermann, Rud. Ein Beitrag zur Bewertung des Hühnerhabichts. Bayr. Forstztg Nürnberg 16 1909 Nr. 28 (1-3).

Zimmermann, Rud. & Heyder, Rich. Notizen zur Rochlitzer Ornis 1908. Zs. Oologie Berlin 19 1909 (10-12 24-26). 1718

Zimmermann, Th. Ueber die Vogelwelt der Halbinsel Hela. Vortrag. . . J. Ornith. Leipzig 57 1909 (98-100). 1719

Zollikofer, Ernst. Über einen interessanten Brutort des Gänscsägers (Mergus merganser L.) in der Schweiz. St. Gallen Jahrb. Natw. Ges. 1904 1905 (219-238).

Zwiesele, H. Die Eulen Württembergs. Ornith. Beob. Bern 5 1906 (5-8).

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Colorado, notes of occurrence and nesting of certain species additional to the "Birds of Colorado"; Dille, 398.

Colorado, new records and important range extensions for the State; Cary, 280, 281.

Colorado, records of rare birds; Felger, 467.

Boulder co. Colorado, annotated list of the birds; Henderson, 625.

Weld, Morgan and Adams counties, Colo., annotated list of the water birds; Felger, 469. Barr Lake district, Colorado, annotated list of birds; Hersey & Rockwell, 718.

South-west Montrose county, Colorado, notes on the birds; Warren, 1626.

Gila river, Arizona, notes on the owls; Gilman, 551.

Washington State, complete scientific and popular account of 372 species of birds found in the State; Dawson & Bowles. 377.

Washington State, three new records; Bowles, 171.

Carroll Islet, Washington State, a visit in June; Jones, 799.

Big Basin, California, bird notes; Ray, 1239.

Oregon, a new state record; Bowles, 171.

Baker county, Oregon, list of birds; Jewett, 785.

Fresno co., California, avifaunal notes; Tyler, 1532.

San Luis Obispo co., California, bird notes; Willett, 1670.

Kern co., California, bird notes; Shel-don, 1414.

San Clemente Island, Cal., further motes on avifauna; Linton, 911.

Minor notices.—Colo., Bergtold, 117; Felger, 468; Warren, 1625; N.M., Bergtold, 116; Ariz., Gilman, 550; Visher, 1602; Wa., Bowles, 172; Cal., Grinnell, 588, 590; Hanna, 652; Ingersoll, 767; Mailliard, 957, 958; Myers, 1053-4; Osburn, 1132; Stephens, 1463.

Mexico.

Cape region, Lower California, note on some rare birds and sets of eggs; Thayer, 1511.

Los Coronados Islands, Lower California, an ornithological trip; Wright, 1699.

Los Coronados Islands, Lower California; notes on the birds; Osburn, 1131.

North-west Sonora, Mexico, bird motes; Hornaday, 742.

ANTARCTICA.

Antarctic regions, bird notes and photographs; Bruce, 223.

III.—SYSTEMATIC.

The arrangement of Sharpe's "Handlist of birds" is here used; where generic names differ, the name in the Handlist is prefixed in square brackets.

ORDER STRUTHIONIFORMES.

Struthio australis, domestication in South Africa, Duerden J. S. Afric. Ornith. Union 5 p. 5.—S. molybdophanes, display of cock in breeding season, Pooock Avicult. Mag. 7 1909 p. 286 2 photographs.

ORDER CASUARIIFORMES.

Dromaeus peroni Roths. must stand as D. parvulus Gould, Mathews Bull. Brit. Ornith. Cl. 25 p. 34.—D. novae-hollandiae, note on structure and habits, Bezzer Rennes Bul. soc. sci. méd. 17 pp. 91-94.

ORDER DINORNITHIFORMES.

†Megalapteryx huttoni, only complete egg in England exhibited, Rothschild Bull. Brit. Ornith. Cl. 25 p. 8.

ORDER TINAMIFORMES.

Nothoprocta cinerascens, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 265.

Nethura salvadorii sp.n. Salta, Argentine, et N. darwini, egg figured, Hartert & Venturi Nov. Zool. 16 p. 266.

ORDER GALLIFORMES.

The Natural History of British Game Birds, with 18 coloured and 17 photogravure plates, by J. G. Millais, F.Z.S. London 1909 folio.

The grouse and wild turkeys of the United States and their economic value, Judd Washington U.S. Dept. Agric. Biol. Surv. Bull. No. 24 1905 pp. 1-55 pl.

The bobwhite and other quails of the United States in their economic relations, Judd Washington U.S. Dept. Agric. Biol. Surv. Bull. No. 21 1905 pp. 1-66 pl.

Sur le sexe des hybrides dans la famille des Phasianidae, GUYER Paris C. R. soc. biol. 65 1908 pp. 642-544.

Lipoa ocellata, nesting and other habits, MATTINGLEY Emu 8 pp. 114-121 pl. 11.

Lagopus scoticus, the ecto- and entoparasites, Shipley Proc. Zool. Soc. 1909 pp. 309-363 pls. 35-60; an example showing erythrism, MILLAIS Bull. Brit. Orn. Cl. 25 p. 40; its occurrence on heather-less moors, STUBBS Brit. Birds 3 1909 p. 86.— L. scoticus × Lyrurus tetrix, exhibition of hybrids with remarks, MILLAIS Bull. Brit. Orn. Cl. 23 p. 51; OGILVIE-GRANT ibid. p. 58; also Brit. Birds 2 1909 p. 384; GLADSTONE ibid. p. 425.—L. lag pus, habits in captivity, SMITH Avicult. Mag. 7 1909 p. 252.— L. l. major, Biologisches (Russ.), Ušakov Naša ochota 1909 l pp. 90-100.—Lagopus alexandrae pp. 204-207, L. dixoni pp. 207-209, spp. n., Alaska, GRINNELL Berkeley Univ. Cal. Pub. Zool. 5.

Lyrurus tetrix, female assuming male plumage, MILLAIS Bull. Brit. Ornith. Cl. 25 p. 41; eine grudelnde Henne, BAUER Ornith. Jahrb. 20 pp. 217-218.

Tetrao tetrix, nuptial habits in Scandinavia and England, SELOUS Zoologist 13 pp. 401-413; occurs in Cheshire, Newstead Zoologist 13 p. 77.—T. tetrix × T. urogallus, on a hybrid, Daguin Rev. Fr. d'Orn. 1 p. 76.— T. medius i.e. T. urogallus \times T. tetrix, in der Schweiz, FISCHER-SIGWART Ornith. Jahrb. 20 pp. 223-228.— Tetrao urogallus, auf Insel Dagden, LOUDON Balt. Weidm.-blt. 5 p. 302; jetzige Verbreitung der Waldhühner in S. Bergentius Amt (Norweg.), GRIEG Bergens Mus. Aarb. 1909 No. 12; ein Vermächtnis an die Naturforschung und an das veredelte Weidwerk, WURM 1909 pp. 1-95.—T. urogallus lugens, in Nord-Finland, MUNSTERнјецм F. Jakttidn. 3 p. 257.

Canachites canadensis canace, in the White mountains of New Hampshire, Brown Auk 26 p. 428.

(N-11091 g)

Tympanuchus cupido, a visit to Martha's Vineyard, Mass., to see the Heath Hen, TIPPETTS Bird-Lore 11 p. 244.

Tetrastes orientalis sp. n. Mongolia, MADARÁSZ Ann. Mus. Hung. 7 p. 178.

Caccabis rufa, on the var. " Perdrix à plastron," CHAIGNON Autun Bul. soc. hist. nat. 20 pp. 35-37 (of Proc.verb.).

Ammoperdix heyi heyi, nomenclature and habits in Egypt, NICOLL Ibis 1909 p. 640.

[Francolinus] Attagen francolinus Lebensweise und Verbreitung in Transkaukasien, SATUNIN Ochotn. véstn. 13 l pp. 9-10 and 2 pp. 10-11.—F. sinensis, un hématozoaire (Leuco-cytozoon) dans le sang, LEGER et MATHIS Ann. Inst. Pasteur 23 pp. 740-743 .- F. squamatus and F. lathami, nesting and eggs in S. Kamerun, BATES Ibis 1909 p. 10.—F. cameru-nensis, sp. n. Peak of Cameroon, OGILVIE-GRANT Bull. Brit. Ornith. Cl. 25 p. 12.

Pternistes harterti sp. n. Tanganyika, REICHENOW Ornith. Monatsber. 17 p. 41.—Pternistes cranchi intercedens subsp. n., Rukwa-See D.-O.-Afrika, REICHENOW Ornith. Monatsber. 17 p. 88.

Perdix perdix, ein Vorkommen des "var. montana Briss.," JACOBI Ornith. Monatsber. 17 p. 50; mimiery, LINTIA Aquila 15 1908 p. 306.—P. cinerea, note on Pyrenean form, CHAIGNON Autun Bul. soc. hist. nat. 19 pp. 42-45; chocolate coloured variety in Norfolk, Gurney Zoologist 13 p. 138; the red variety in Salop, Ingram Brit. Birds 2 1909 p. 311; FORREST ibid. p. 345.—Starna cinerea, sur la Perdrix de montagne, OLIVIER Rev. sci. Bourbon. 21 pp. 56-59.

Perdicula asiatica, notes on breeding in captivity, Cockell Avicult. Mag. 7 p. 234.

Microperdix inglesi, sp. n., Goalpara, Assam, OGILVIE-GRANT Bombay J. Nat. Hist. Soc. 19 p. 1; field notes, Inglis t.c. pp. 2-3.

Arboricola rolli, sp. n. N.W. Sumatra, ROTHSCHILD Bull. Brit. Ornith. Cl. 25 p. 7.

Coturnix communis, Art des Zuges in Südrussland, Tarnani Ochotn. věstn. 9 pp. 354-355; les cailles de la Bible, Orfeuille Bul. soc. nat. acclimat. 56 pp. 257-264; habits, Baltz Zs. Jagdschutzver. 14 pp. 357-359 367-368.

Excalfactoria chinensis, first record of breeding in captivity, HENRY Rev. Fr. d'Orn. 1 p. 43.

Tragopan temmincki, at Sadone, Burma, first record for British India, OATES Bombay J. Nat. Hist. Soc. 19 p. 260.

Lophophorus impeyanus, sexual display, Smith Avicult. Mag. 7 p. 160.

Lophura nobilis, note on nomenclature, Sharpe & Chubb Ornis London 13 p. 138.

Gennaeus, revision of the genus, account of hybrids and geographical distribution, Ghigi Bologna Mem. Acc. sci. ser. 6 6 pp. 133-174 2 pls.—G. swinhoii, processo di mutazione, Ghigi Monitore zool. ital. 20 pp. 95-96.

Phasianus, acclimatisation in Norway (Norweg.), Herlofson Kristiania Norsk Jægerf. Tidssk. 38 pp. 42-46; Arten der Ferghanau. Ph. mongolicus triznae subsp. n. aus Namangau, Zaruddy Semja ochotn. 3 pp. 352-353.—Ph. tshardjuensis But. = gordius Alph. et Bianchi p. 127, jabae Amu-Darja p. 128, michailovskii Pamirgebiet p. 129 spp. n., Zaruddy Semja ochotn. 1909.—Ph. non-ultimus sp. n., Afghanistan, Zaruddy Semja ochotn. 1909 pp. 141-143.—Ph. shavi chrysomeloides subsp. p., Ost-Turkestan, China, Lorenz Ornith. Monatsber. 17 p. 171.

Syrmaticus reevesi, cenno illustrativo, Carruccio Roma Boll. Soc. zool. ital. 10 pp. 274-277.

Gallus domesticus, MESDAG Beitrag zur Entwicklungsgeschichte der Hirnstructur beim Embryo des Hühnchens 1909 pp. 153 11 Taf.—G. bankiva, Trypanosome et Leucocytozoon de la Poule, MATHIS et LEGER Paris C. R. soc. biol. 67 pp. 452-454 470-472 688-690.

Rheinardtius, remarks on the species, Elliot Ann. Mag. N. H. (8) 4 p. 242.

†Pavo californicus sp. n. California, Quaternary, MILLER Berkeley Univ. Cal. Pub. Bull. Dept. Geol. 5 pp. 285-289 pl. xxv.

Meleagris gallopavo, last examples taken in Illinois in 1905, Felger Auk 26 p. 78; near Denver, Colo in 1868, Felger t.c. p. 191.

Lophortyx californicus, habits in captivity and plate of black and white studies, WORMALD Avicult. Mag. 7 p. 145.

Cyrtonyx montezumae mearnsi, its distribution and molt, SWARTH Condor 11 pp. 39-43.

ORDER TURNICIFORMES.

Turnix horsbrughi sp. n. Yule Isle, British New Guinea, INGRAM Bull. Brit. Ornith. Cl. 23 p. 65.

ORDER PTEROCLIDIFORMES.

Syrrhaptes paradoxus, der Zug nach dem Westen 1908, Tschusi zu Schmid-HOFFEN Verh. Mitt. siebenb. Ver. Naturw. 58 pp. 1-41; Vorläufiges über Steppenhuhnerzug, den heurigen TSCHUSI ZU SCHMIDHOFFEN Ornith. Monatschr. 34 pp. 52-59 199-202 434-440; in Krain, Osterreich, Ponebšek, Ornith. Jahrb. 20 pp. 214-217; incursione nell' Europa orientale nell' anno 1908, Chici Roma Boll. Soc. zool. ital. 10 pp. 154-156; Auftreten in Russland 1908, BUTURLIN N. Balt. Weidmblt. Riga 4 1908 pp. 300-301; in der Krim, Iljinsky Ochotn. gaz. St. Peterburg 35 p. 359.

[Pteroclidurus] Pteroclurus exustus olivascens subsp. n. Massai-Land, Hartert Ornith. Monatsber. 17 p. 183.—P. exustus langeri subsp. n. Arabia NEUMANN t.c. p. 154.

Pterocles lichtensteini arabicus & P. l. sukensis, subspp. n., Arabia & Ost-Afrika resp., Neumann Ornith. Monatsbor. 17 pp. 152-153.

ORDER COLUMBIFORMES.

Ueber die Wanderungen unserer Wildtauben, Hooke Natur u. Haus, 17 pp. 378-380.

Le Pigeon dans l'ancienne Egypte, Boussac Nature Paris 37 pp. 264-268.

Crocopus annamensis, sp. n. Annam, OGILVIE-GRANT Bull. Brit. Ornith. Cl. 23 p. 67.

[Phabotreron] Phapitreron samarensis sp. nov. Lamar, Philippine I., MEARNS Proc. U. S. Nat. Mus. 36 p. 436.

[Carpophaga] Muscadivores palmasensis sp. n. Palmas, Philippine Is., MEARNS Proc. U. S. Nat. Mus. 36 p. 436.

Columba punicea & C. grisea in the Malay Peninsula, Robinson J. Fed. Malay Mus. 4 pp. 129-130 .- C. rupestris turkestanica, Berichtigung, SARUDNY, Ornith. Monasber. Berlin 16 p. 163.—C. livia English carrierpigeons found in Finland [Finnish], SUOMALAINEN Luonnon Ystävä 13 German carrier-pigeons in Finland, PALMER F. Jakttidn. 2 p. 83; on old dovecots in Scotland, CAMPBELL Edinburgh Trans. F. Nat. Soc. 6 p. 96 pls. 6-7; mit Marke versehene Briefpls. 6-7; mit mains to taube [Schwedisch], Brander Tabettidn 3 p. 335.—C. as Jakttidn. 3 p. 335.—C. aenas, nesting habits, Lindner Uns. Welt 1 pp. 469-472; eine für Deutschland wohl neue Anpassung, LINDNER Ornith. Monatschr. 34 p. 320; occurrence in the Clyde area, WILSON BROS. Glasgow Nat. 1 p. 101.—C. picazuro venturiana, subsp. nov. Mocovi, Argentine, HAR-TERT & VENTURI Nov. Zool. 16 p. 260 .-C. trocaz, Bruten in Gefangenschaft, C. polumbus, enquiry into Wood pigeon "diphtheria," Ticchurst Brit. Birds London 3 p. 213.—C. plumbea pallescens, subsp. nov., Rio Purús, Brazil, SNETHLAGE Bol. Mus. Goeldi 5 1909 p. 68.

Reinwardtoenas bleyi sp. n., Bismarck-Archipel, Meyer Ornith. Monatsber. 17 p. 36.

Ectopictes migratorius, nearing extinction, only one pair left, DEANE Auk 26 p. 429.

Zenaidura carolinensis, in captivity, GIFFORD Condor 11 p. 84.

Melopelia leucoptera, un hémamibe de, Laveran et Pettit Paris C. R. soc. biol. 66 pp. 952-954 fig.

Turtur turtur, Verbreitung im Vogelsberg, Schuster Zool. Beob. 50 pp. 181-182.

[Streptopelia] Turtur semitorquatus, nesting habits and eggs, BATES Ibis 1909 p. 9.

[Spilopelia] Turtur tigrinus, nesting on the ground, Allan Bombay J. Nat. Hist. Soc. 19 p. 523.

(n-11091 g)

Geopelia shortridgei sp. n., Carnarvon, Western Australia, OGILVIE-GRANT, Bull. Brit. Ornith. Cl. 23 p. 73.

Lophophaps leucogaster Gould, must be added to the Australian list, MATHEWS Bull. Brit. Ornith. Cl. 25 p. 34.

Aplopelia tessmanni sp. n., Bebai, Cameroons, Reichenow Ornith. Monatsber. 17 p. 87.

Phlogoenas crinigera, description, history and breeding habits in captivity, NEWMAN Avicult. Mag. 7 p. 225 4 pls.

ORDER OPISTHOCOMIFORMES.

Opithocomus cristatus, ecology, Beebee Zoologica New York 1 pp. 45-66 figs. 11-19.

ORDER RALLIFORMES.

Rallus longirostris crepitans, taken in Essex county, Mass., Wharton Auk 26 pp. 76.—R. virginianus, nesting in New York City, Weber Auk 26 pp. 19-22.—R. antarcticus, egg figured, Hartert & Venturi Nov. Zool. 16 p. 257.—R. aquaticus, remarkable incident in the life-history with series of photographs, Turner Brit. Birds 3 p. 65; occurrence in Kent, Farmborough Avicult. Mag. 7 pp. 112, 306; habits and occurrence in Hants, Trevor-Battye t.c. p. 196.

Himantorms whitesidei, sp. n. Upper Congo, Sharpe Bull. Brit. Ornith. Cl. 25 p. 19.

[Zapornia] Porzana parva, first record from Egypt, Nicoll Bull. Brit. Ornith. Cl. 23 p. 100.

Porzana carolina, nesting in New York City, Weber Auk 26 pp. 19-22.

[Ortygops] Porzana noveboracensis, at Salem New Jersey, Harlow Auk 26 p. 190; Coturnicops noveboracensis, occurrence in Michigan, Wood Auk 26 pp. 1-5.

Creciscus jamaicensis, in the District of Columbia, Palmer Auk 26 p. 190; Porzana jamaicensis, in Maryland, Palmer Auk 26 p. 427.—C. coturniculus habits and occurrence in S. California, STEPHENS Condor 11 p. 47; nesting near San Diego Cal. INGERSOLL t.c. pp. 123-127.—C. melanophaius, egg figured, Hartert & Venturi Nov. Zool. 16 p. 258.

e 16-2

Microtribonyx ventralis, habits and movements, Christian Emu 9 p. 95.

Monias benschii, from Madagascar, additional description and information, GRANDIDIER Paris C. R. Aead. sci. 149 p. 1090.

Gallinula chloropus, Gelege und Nester, Wemer Vogelwelt 5 pp. 86-87.

[Porphyriola] Ionornis martinica, 3rd record in Illinois, Deane Auk 26 p. 305.

Fulica atra, habits and instincts, MASSE Paris Rev. Fr. d'Orn. 1 p. 10.

Podica jacobi, habits in S. Kamerun, Bates Ibis 1909 p. 8.

ORDER PODICIPEDIFORMES.

Podicipes fluviatilis, on the arrangement of the tail feathers, Pycraft Bull. Brit. Ornith. Cl. 23 p. 95, also Ibis 1909 p. 469; aus dem nördlichen Teil des Kirchspiels Enontekis, Lapland, Montell F. Jaktidn. Helsingfors 3 1908 p. 142; Colymbus fluviatilis, neu für die Canaron, Polatzek Ornith. Jahrb. 20 pp. 202-210.

[Lophaethyia] Podicipes cristatus, early nesting and habits, Oldham Brit. Birds 3 1909 p. 30; large clutches of eggs, Crouch & Turner t.c. p. 60; nidification sur l'étang de Boisvinet (Loir-et-Cher), Reboussin Rev. Fr. d'Orn. 1 pp. 60-63.

ORDER COLYMBIFORMES.

[Colymbus] Urinator Laeépède, kritische Uebersieht der Synonymie, Bianchi St. Peterburg Ann. mus. zool. 14 pp. 136-139.—Eudytes septentrionalis, in Mitteldeutschland, SEEGER HOPFNER & BIEBER Ornith. Monatsehr. 34 p. 203; bei Cöthen, Buchner t.c. p. 142.—C. arcticus, its pterylosis, PYORAFT Brit. Birds 3 1909 p. 93; Nest, Eicr, Gefeider, Brutpflege, Wanderung, Poliakov Mater. faun. flor. Ross. 9 pp. 258-273; Urinator arcticus, im Rheinlande, LE ROI Ornith. Monat-sehr. 34 p. 368.—C. glacialis, scasonal change of plumage, SMALLEY Ann. Scot. Nat. Hist. 1909 pp. 139-144; moulting habits, Robinson Ann. Scot. Nat. Hist. 1909 p. 50; colour of mandibles, Duchess of BEDFORD Brit. Birds 2 1909 p. 387.

ORDER SPHENISCIFORMES.

Aptenodytes forsteri, photographs and notes, BRUGE Scientific results Voy. Sectia Zool. pl. ix figs. 25-27.

Pygostelis adeliae, P. papua and P. antarctica, photographs and notes, BRUGE Scientific Results Voy. Scotia Zool., figs. 22 24 53 54 55 56 57 100, 101.

Spheniscus demursus, Ei und Brüten, Krohn Zool. Beob. 50 pp. 229-232.

ORDER PROCELLARIIFORMES.

A monograph of the Petrels (Order Tubinares) by F. du Cane Godman. Part IV. London 1909 4to.—The following species are figured—Oestrelata heraldica, Oe. yularis, Oe. leucoptera, Oe. defilippiana, Oe. cooki, Oe. axillaris, Pagodroma nivea, Bulweria bulweri, B. macgillivrayi, Macronectes giganteus, Fulmarus glacialis, F. glupischa, F. rodgersi Daption capensis, Halobaena caerulea, Prion vittatus, P. banksi, P. desolatus.

[Oceanodroma] Procellaria leucorrhoea, occurs in Orkney, Robinson Ann. Scot. Nat. Hist. 1909 p. 118; in great numbers on the Cumberland and N. Lancashire coasts, Robinson Brit. Birds 2 1909 p. 282.

Puffinus yelcouan, on an old Norfolk record, WITHERBY Brit. Birds 2 1909 p. 313.—P. fuliginosus, taken on the coast of la Vendée, France, Anfrie Rev. Fr. d'Orn. 1 p. 116.—P. tenuirostris, "egging" on Philip Island, Bass Straits, Campbell Emu 8 p. 207 pl. xviii.

Estrelata sandwichensis, a breeding colony on Molokai H.I., BRYAN Occ. Paps. Berniee Pauahi Bishop Mus. 4 p. 43.

Bulweria bulweri, in Sussex, WITHERBY Brit. Birds 2 p. 282.

Ossifraga gigantea, photographs and notes, Bruce Scientific Results Voy. Scotia Zool. figs. 94-97.

Diomedea nigripes and D. immutabilis, breeding on Midway Island, Hawaian Islands, RICHARDS Condor 11 1909 p. 122.

Thalassogeron cautus, a rookery photographed, White Emu 8 pl. 16; Dio-

medea cauta, description of a S. African example, HAAGNER J. S. Afric. Ornith. Union 5 p. 87.

ORDER ALCIFORMES.

Plautus impennis, sale of an cgg, Howarth Mus. Journ. 8 p. 293.

Uria lomvia, occurrence in the Firth of Forth, Scotland, CLARKE Ann. Scot. Nat. Hist. 1909 p. 75.

[Micruria] Brachyramphus hypoleucus, nesting on Los Coronados Islands, Lower California, Lamb Condor 11 p. 8.

ORDER LARIFORMES.

[Hydroprogne] Sterna tschegrava, auf der Insel Sylt, Hennicke Ornith. Monatschr. 34 p. 198 2 Taf.

Sterna, number of eggs laid by Terns, Gilroy Brit. Birds London 3 pp. 123.—222; Bunyard t.c. pp. 198, 223.—S. fuviatilis, nesting on the Holyhead skerries, Noble Brit. Birds London 3 p. 90.—S. fuviatilis & S. cantiaca, notes on breeding, Robinson Brit. Birds London 3 p. 169.—S. fuviatilis und S. macrura, die Eier, Goebell Zs. Oologie Berlin 18 pp. 130-144 19 pp. 22-24; Hauptbrutplätze in Norddeutschland, Domeier Zs. Oologie 18 p. 164; Reuter Zs. Oologie 19 pp. 9-10.—S. fuliginosa, occurrence near Barmouth, Rawlings Zoologist 13 1909 p. 438.—S. minuta, the colony at Spurn Point, Yorkshire, Grabeam Brit. Birds 2 1909 p. 317 pl. 7.

Gygis candida, nesting habits on Cocos-keeling Atoll with photographs, Jones Proc. Zool. Soc. 1909 p. 137.

Xema sabinii, first recorded British adult male, Montagu Bull. Brit. Ornith. Cl. 23 p. 103.

Larus minutus, occurrence in Co. Meath, Barrington, Irish Nat. 18 1909 pp. 99 183.—L. ridibundus, the supposed "colour-change" and spring moult, Bair Brit. Birds 3 1909 p. 105; gulleries in Lincolnshire, Blateway Zoologist 13 1909 pp. 139-144; ucber die Resultate, welche von der Vogelwarte Rossitten, bisher erzielt wurden, Thienemann Königsberg Schr. physik. Ges. 49 p. 402; the gu.ls on the Lake of Geneva and their census, Forel

Arch. Sci. Phys. Genève 24 p. 511 et Lausanne Bul. Soc. Sci. Nat. 41 pp. 17-21; migrating to Copenhagen in winter, Helms Köbenhavn Ornith. Tids. 8 p. 141.—L. heermanni, nesting off Jalisco State, Mexico, Osburn Condor 11 p. 151.—L. marinus, parasitic habits, Blackwood & Brock Ann. Scot. Nat. Hist. 1909 p. 117.—L. audouini, note on eggs and nesting place, Jourdain Bull. Brit. Ornith. Cl. 25 p. 39 also Ornith. Jahrb. 20 pp. 139-143; new nesting colony in Corsica, Jourdain & Read Bull. Brit. Ornith. Cl. 25 p. 23.—L. canus, Brutvögel der sudlichen Nordseeinseln, Leege Ornith. Monatschr. 34 p. 69.

Pagophila eburnea, in the arctic regions, HAAG Zs. Oologie 18 pp. 137 163.

ORDER CHARADRIIFORMES.

Strepsilas interpres, habits in captivity, Smith Avicult. Mag. 1 1909 p. 58.

Haematopus ostralegus, nesting at Spurn, Yorks. Grabham Naturalist 1909 p. 307 2 figs.

[Deflippia]Hemiparra hybrida sp. n., Ost-Afrika, REIGHENOW Ornith. Monatsber. Berlin 17 p. 42.

Vanellus vanellus, habits in Dumfriesshire, Hunter Dumfries Trans. Nat. Hist. Soc. 20 1909 p. 185; V. cristatus, Normentafel zur Entwicklungsgeschichte, Grosser & Tandler pp. vi + 58 3 Taf. Jena 1909; V. vulgaris, occurrence in Tirhut, Inglis Bombay J. Nat. Hist. Soc. 19 p. 262; amputation of toes by means of wool, Elton Brit. Birds 2 1909 p. 281.

Charadrius dominicus, in Ohio in autumn, HENNINGER Auk 26 p. 77.

[Ochthodromus] Charadrius bicinctus, instance of extraordinary sagacity in defence of her nest, Fulton 1bis 1909 p. 384.

Eudromias morinellus, occurrence near Oldham, Stubbs Lancs. Nat. 2 p. 76.

Oxyechus vociferus rubidus nom. n. for Charadrius torquatus Linné 1766, not torquatus Pontoppidan 1763, Riley Washington Proc. Biol. Soc. 22 p. 88.

Aegialitis hiaticula, taken 700 miles from land, TRUMBULL Irish Nat. 18 p. 27.

Ibidorhynchus struthersi, Pullus Beschreibung, Johansen Tomsk Izv. Univ. 22 pp. 34-35 pl. ii.

Numenius arquatus, Nisten, Gewahnheiten, Wanderung, Balabin Semja ochotn. 1909 pp. 180–182; a breeding bird in Switzerland, Fischer Sigwart Verh. Schweiz. Naturf. Ges. 92 1909 pp. 233–239.—N. tenuirostris & N. arquatus lineatus, on eggs taken in Siberia, Dresser Bull. Brit. Ornith. Cl. 25 p. 38.—N. tenuirostris, im Gouv. Tobolsk, Nest, Ei, Ušakov Naša ochota 1909 2 pp. 92–95.—N. phaeopus, off the coast of Nova Scotia, Brewster Auk 26 p. 190.—N. borealis, taken at Newburyport, Mass., Thayer Auk 26 p. 77.

Limosa melanuroides Gould, correct name for Australian Godwit, Mathews Emu 9 p. 28.

[Macrorhampus] Pseudoscolopax taczanowskii, occurrence in W. Siberia, Dresser Ibis 1909 pp. 418-421 pl. vii, text-fig. 6; exhibition and remarks on skins and eggs, Dresser Bull. Brit. Ornith. Cl. 23 1909 p. 60; Verbreitung in Sibirien, Buturlin Naša ochota 3 12 pp. 121-122; Dimensionen, Flug, Veližanin Naša ochota 1909 3 pp. 115-121; am Irtysch, Buturlin Ornith. Monatsber. 17 p. 3; Ereunetes taczanowski, Verbreitung in Sibirien, Ušakov Semja ochotn. 1909 pp. 160-161.

. Totanus flavipes, in Pennsylvania, HARLOW Auk 26 p. 305.

Pavoncella pugnax, taken at Seabrook, N.H., Thayer Auk 26 p. 77; Machetes pugnax, in Norfolk, Turner Brit. Birds 3 p. 29.

Calidris arenaria, note on the chicks with coloured plate, CLARKE Brit. Birds 3 1909 p. 33; near Detroit, U.S.A., Wood Auk 26 p. 427.

Limonites ruficollis, first record in Alaska, Thayer Condor 11 p. 173.

[Heteropygia] Tringa bairdi, new to Norfolk, Gurney Zoologist 13 p. 124. —Actodromas fuscicollis, in Philadelphia county, Pa., MILLER Auk 26 p. 427.

Tringa canutus, first record for Egypt, Nicoll Ibis 1909 p. 646.

Pelidna alpina, occurrence near Oldham, STUBBS Lanes. Nat. 2 pp. 243-248; Tringa alpina, feeding habits, DEWAR Zoologist 13 pp. 1-14.

Gallinago megala, in the Malay Peninsula, Robinson J. Fed. Malay Mus. 4 p. 130.-G. major, Zug in Russ-MALYOUIN Ochotn. věstn. land, Moskva 9 pp. 279-281; Zug und plötsliches Auftreten (Russ.), ALEK-SANDROV Ochotn. věstn. 9 pp. 355-356 .- G. major orientalis subsp. n. Turkestan, Russisches ZARUDNY Semja ochotn. 1909 l pp. 12-13.— Scolopax gallinago, vollständiger Albino, JOHANSEN Ornith. Monatsber. 17 p. 138; G. coelestis, albino var. in Sind, GILL Bombay J. Nat. Soc. 19 p. 525; nesting in Wilts, MATHEWS Brit. Birds 3 p. 28; habits of a tame Snipe, Wor-MALD Brit. Birds 2 p. 249; perching on hurdles, Witherington Brit. Birds 3 p. 59; in Travancore in April, GILES Bombay J. Nat. Hist. Soc. 19 p. 749; average weight, BIRD Brit. Birds 2 p. 312.—G. delicata, wintering in Pennsylvania, HARLOW Auk 26 p. 305.

Limnocryptes gallinula, average weight, Bird Brit. Birds 2 p. 312.

Scolopax rusticula, the external sexual and juvenal distinguishing characters, OGILVIE-GRANT Bull. Brit. Ornith. Cl. 25 pp. 34-38; habits and history, Johnson Selborne Mag. 20 p. 13; habits in Dumfriesshire, GLAD-STONE Dumfries Trans. Nat. Hist. Soc. 20 p. 35; history and ecology, Johnson Selborne Mag. 20 p. 13; nidification en Saône-et-Loire, Ormezzano Autun Bul. soc. hist. nat. 19 1906 pp. 119-120; moeurs, Dijussien t.c. pp. 258-260; Bericht über eine in der Nacht vom 16. zum 17. Oktober 1908 über Ostpreussen hinweggegangene aussergewöhnlich starke Zugwelle von Waldschnepfen; THIENEMANN D. Jägerztg 54 pp. 73-75 92-94 107-108 124-125 140-142 . 156-157; Tragen der Jungen beim Flug, Тозен N. Balt. Weidm.-blt. 5 p. 396.

Philohela minor, habits near Buffalo, REINECKE Buffalo Bull. Soc. Nat. Sci. 9 pp. 136-148 11 figs.; a late flight on Long Island, N.Y., HERRICK Auk 26 p. 77.

Rostratula capensis, im Ussuri-Gebiet, BUTURLIN Ornith. Monatsber. 17 p. 155; Rhynchaea capensis, im Amur-Gebiet, MEDVEDEV Naša ochota 3 7 p. 46; Beschreibung, BUTURLIN Naša ochota 3 8 pp. 59-63.

[Crymophilus] Phalaropus fulicarius, Lebensweise, HAAG Zs. Oologie 19 pp. 102-104.

Phalaropus hyperboreus captured alive in Iceland, SMTH Avicult. Mag. 7 p. 309; im Finnischen Meerbusen (Schwedisch), SANDMAN Medd. Soc. Fauna et Fl. Fenn. 35 pp. 167 329.

Cursorius gallicus, catturato nelle spiagge romane, FALCONIERI DI CAR-PEGNA Roma Boll. Soc. zool. ital. 10 pp. 236-238.

Oedicnemus oedicnemus, its status in Yorkshire, Wade Naturalist London 1909 p. 11; E. scolopax, first record from Cumberland, Thorpe Zoologist 13 p. 137.—E. senegalensis, discussa sua comparsa nel Vicentino, Arrigoni degli Oddi Roma Boll. Soc. zool. itsliana 10 pp. 203–206 e Meschinelli Venezia Atti Inst ven. 68 1908–9 pp. 65–68.—E. csongor sp. n. Schirati, German-East-Africa, Madarasz Arch. zool. 1 p. 11.

Burhinus grallarius, photograph of, in the Melbourne zool. Gardens, Seth-Smith Avicult. Mag. 7 p. 137; "planting" on shingle, Burrell Emu 8 p. 150 pl. 14.

Otis tarda, habits in captivity and attempts at domestication, ELDRED Norwich Trans. Nat. Hist. Soc. 8 p. 727; habits in captivity, Trevor Battye Avicult. Mag. 7 pp. 184-192; its reported occurrence in Yorkshire untrue, St. Quintin Zoologist 13 p. 113; a visit to Prussia to see, Haase Ornith. Tids. 3 p. 55; in Brandenburg, Hocke Zs. Oologie 19 pp. 104-107 119-120; in Kurland, Stoll N. Balt. Weidm.-blt. 4 1908 p. 466.

Sypheotis aurita, in the Konkan, Western India, Symons Bombay J. Nat. Hist. Soc. 19 p. 261.

ORDER GRUIFORMES.

Grus cinerea, killed near Chalon, BLANO Chalon-sur-Saône Bul. soc. sci. nat. 35 p. 4.—G. canadensis, status in California, GRINNELL Condor 11 p. 128.

[Antigone] Grus antigone, occurrence in Salsette, Bombay, Symons Bombay J. Nat. Hist. Soc. 19 p. 261; nesting in Gujerat, O'BRIEN t.c. p. 524.

Tetrapteryx paradisea, habits in captivity. GREGORY Avicult. Mag. 7 p. 83.

[Anthropoides] Grus virgo in Krasnojarsk, Tugarinov Naša ochota 3 11 p. 25.

Balcarica pavonina, sur les bords du Léman, GH Feuille jeunes natural. 39 1909 p. 232.

Rhinochetus jubatus, wing display in captivity, Denman Avicult. Mag. 1 1909 p. 51 with photograph.

Psophodes crepitans, habits in captivity, with text-fig., Phillipps Avieult. Mag. 7 p. 85.

ORDER ARDEIFORMES.

Hagedashia hagedash, the geographical races and their differentiation, NEUMANN Ornis London 13 p. 190; H. hagedash erlangeri subsp. n. Somaliland, H. h. nilotica subsp. n. Abysinia, H. h. guineensis, subsp. n. Nigeria, NEUMANN Ornis London 13 pp. 193-194.

Plegadis falcinellus, at Doncaster, Corbett Naturalist 1909 p. 441; at Whitby Stephenson t.c. p. 441; in Yorks. Notts. & Devon, Kempsey and others, Brit. Birds 3 p. 229; in Cos. Doncgal and Derry, Campbell Irish Nat. 18 p. 256; Falcinellus igneus, tué à Saint-Oucn-de-la-Cour (Orae), Letacq Rouen Bul. soc. amis sci. nat. 43 1907 p. 8.

Platalea leucordia, in Lower Burma, Hopwood Bombay J. Nat. Hist. Soc. 19 p. 261.

Tantalus loculator, migrations in S. America, SPRUCE Notes of a Botanist on the Amazon and Andes pp. 373-376. London 1908 8vo.

Ciconia alba, example killed on the Blue Nile with a "Rossitten Vogelwarte" ring on its leg, BUTLER Ibis 1909 p. 386; another killed in the Kalahari, S. Africa, THIENEMANN t.c. p. 387; other marked Storks killed in Natal and Palestine, SCLATER, t.c. p. 567; Vogelwarte Rossitten gezeichnete Störche in Afrika und Syrien

erbeutet, Thienemann Ornith. Monats. ber. 17 pp. 24 70 117-118 15C-152 181-182; Fruhjahrszug in Ungarn, Schenk J. Ornith. 57 p. 89; Allerlei vom Storch, Loeffel Zs. Oologie 19 pp. 12-13; aus der Wetterau, Sude Gefied. Welt 38 p. 71; Fränker der Jungen Cerva Aquila 15 pp. 311-312.

Xenorhynchus asiaticus, breeding notes with plate of young birds on nest, CORNWALL Emu 8 p. 140 pl. xii.

Ardea cinerea, preening and powder-down habits, Dewar Brit. Birds 2 p. 285; on a heronry near Schötz, Canton Lucerne, Switzerland, Fischer-Sigwart Verh. Schweiz Naturf. Ges. 92 1909 pp. 229-232; contributions to life history, Saxtorph Köbenhavn Ornith. Tids. 3 p. 144.

Herodias alba, in the Malay Peninsula, Robinson J. Fed. Malay Mus. 4 p. 131; im Ussuri-Gebiet, Buturlin, Naša ochota 3 11 p. 85.

[Florida] Ardea coerulea, influx in New Jersey, U.S.A., Howe Auk 26 p. 76; HARLOW t.c. p. 189; in Michigan, TAVERNER t.c. p. 83.

[Leucophoyx] Egretta candidissimal occurrence in New Mexico U.S.A., BERGTOLD Auk 26 p. 76; E. candidissimal brewsteri subsp. n. Mexico, Thayer & Bangs Proc. New Engl. Zool. Cl. 4 pp. 39-41.

Tigrisoma marmorata, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 247.

Ardetta minuta, occurring in Oxfordshire, APLIN Zoologist 13 p. 468; in Orkney, Cowan, Brit. Birds 3 p. 58.—A. pulchra Hume, a resident tropical race in the Malay Peninsula district from A. sinensis, Robinson J. Fed. Malay Mus. 4 p. 131.—A. exilis, breeding in Chester co., Pa. Pearson Auk 26 p. 426.—A. involucris, egg figured, Hartert & Venturi Nov. Zool. 16 p. 247.

ORDER PHOENICOPTERIFORMES.

Phoenicopterus, identified on Egyptian vases, Forbes Nature 82 p. 38.—P. roseus, on the Cabul river, N.W. Frontier Province, India, Tenison J. Nat. Hist. Soc. 19 p. 525.—P. minor, occurrence in Cutch, Rao Khengarji Bombay J. Nat. Hist. Soc. 19 p. 262.

ORDER ANSERIFORMES.

The Indian Ducks and their allies by E. C. Stuart Baker; with 30 plates. London and Bombay 292 pp. 1908 8vo.

The Waterfowl of India and Asia, by Frank Finn. Calcutta 1909 8vo.

The brown stain occasionally seen on the feathers of wild ducks, Bales Wilson Bull. 21 p. 221.

Notes on some Australian ducks, HALL Emu 9 pp. 77-79.

Zur Naturgeschichte der Wildgänse, Madarász Ann. Hist. Nat. Mus. Nat. Hung. 7 pp. 302-306 Taf. v.

Cygnus cygnus, its history in Scandinavia, EKMAN Fauna och Flora Uppsala 3 p. 292.—C. columbianus, destruction of large numbers at Niagara Falls, D'EVELYN Avicult. Mag. 7 p. 92.—C. olor, pugnacity in defence of nest, Cottam Lancs. Nat. 2 p. 71.

Plectropterus gambensis & P. niger, their intergradations, HAAGNER J. S. Afric. Ornith. Union 5 p. 88.

Asarcornis scutulata, in Tenasserim, MACDONALD Bombay J. Nat. Hist. Soc. 19 p. 263.

Rhodonessa caryophyllacea occurrence in Burma, JARDINE Bombay J. Nat. Hist. Soc. 19 p. 264.

Nettapus coromandelianus, in Sind, Gibson Bombay J. Nat. Hist. Soc. 19 p. 263; in the Konkan, Western India, Bacon t.c. p. 264.

Chen hyperborea nivalis, in Gorham, Maine, Norton Auk 26 p. 304.—Chen sp. ? in Massachusetts, Brewster Auk 26 p. 188.

Anser cinereus, Regeneration des Schnabels, Werber & Goldschmidt Arch. EntwMech. 28 pp. 661-677 1 Taf.; A. domesticus Wirkung des Futters auf das Wachstum, Bēliajev Pticevodn. choz. 11 pp. 242-244.—A. neglectus, Färbung des Schnabels, Madar. (Sz. Ann. Hist. Nat. Mus. Nat. Hung. 7 pp. 302-306 Taf. v; Anser sp. (neglectus?) subfossil in boulder-clay, Sweden, Lönnberg Ark. Zool. 6 No. 3 p. 17.—A. albifrons, on its occurrence in Italy, Arrigoni degleichus? 1909 p. 562.—A. brachyrhynchus, in Italien, Beaux Ornith. Monatsber. 17 pp. 53 85; Melanonyx brachyrhynchus,

colto nella provincia di Roma, Chigi Roma Boll. Soc. zool. ital. 10 pp. 157-163.

Melanonyx, genus not separable from Anser, Chigi Boll. Soc. zool. ital. 10 pp. 450-453.

[Eulabia] Anser indicus, nesting in Tibet, BAILEY Bombay J. Nat. Hist. Soc. 19 p. 367.

Branta bernicla, Albinismus, LEEGE Ornith. Monatschr. 34 p. 202.—B. ruficollis, in Ostpreussen erlegt, Tisch-Ler Ornith. Monatsber. 17 p. 113.

Dendrocygna fulva, second record in Missouri, Widman Auk 26 p. 304.— D. arcuata, a Aigues-Mortes, (Gard), Menegaux Rev. Fr. d'Orn. 1 p. 57.

Tadorna tadorna, als Brutvogel des lubeckischen Gebietes, HAGEN Ornith. Monatsber. 17 pp. 109-110; T. cornuta Lebensgewohnheiten, Brutpflege etc. BALABIN Semja ochotn. 1909 pp. 194-196.

Casarca casarca in Norwegen, GRIEG Kristiania Norsk Jægerf. Tidssk. 38 pp. 171-173; C. rutila, nesting habits in Chinese Turkestan, Betham Bombay J. Nat. Hist. Soc. 19 p. 751; Tadorna casarca, occurrence at Sule Skerry, Orkney, Clarke Ann. Scot. Nat. Hist. 1909 p. 247.—C. variegata, parental sagacity, Fulton Ibis 1909 p. 384; on the eclipse plumage, Jones Avicult. Mag. 1 1909 p. 61.

Anas boscas, nesting in a tree, in England with figure, BARBER-STARKEY Avicult. Mag. 7 1909 p. 243; les variétes blancs, bariolés et métis, TERNIER Rev. Fr. Orn. 1 pp. 18-20 34-36 50-53; in der Schweiz, Fischer-SIGWART Schweiz. Bl. Ornith. 32 pp. 425-126 439-141; Eier, Goebel Zs. Oologie 19 pp. 83-87; Regeneration des Schnabels, Werber & Goldschmidt Arch. Entw Mech. 28 pp. 661-677 1 Taf.; variationi sessuali e evolutive, Chigi Boll. Soc. zool. ital. 2 10 pp. 222-232; A. boschas, A. poecilorhyncha, A. superciliosa and Dafila acuta, note on a hybrid containing blood of these species, BONHOTE Bull. Brit. Ornith. Cl. 23 p. 96; also Proc. Zool. Soc. 1909 p. 598 .- A. rubripes Brewster, and A. rubripes tristis ncm. n. will in future be the correct names for the Red-legged Black Duck and the Black Duck of North America, BREWSTER

Auk 26 pp. 175-179; A. rubripes, question of the distinction of the two northern races of the Black Duck, DWIGHT Auk 26 pp. 422-426.—A. cristata alticola subsp. r. Lake Poopo, Bolivia, MENEGAUX Bul. soc. philom. 10th ser. 1 p. 224.

Chaulelasmus streperus, in Fifeshiro Scotland, Berry Ann. Scot. Nat. Hist. 1909 pp. 49 116; Anas streperus, second Scottish nesting record, RINTOUL and BAXTER Ann. Scot. Nat. Hist. 1909 p. 184.

Mareca penelope, occurrence in Rhodo Island, Brewster Auk 26 p. 186; in Illinois, Deane t.c. p. 304; in New Hampshire, Hardy t.c. p. 304.—Anas americana, in Japan, Kuroda Dobuts. Z. Tokyo 21 p. 145.—M. sibilatrix, killed near Péronne, France, Beauquesne Rev. Fr. d'Orn. 1 p. 75.

Nettion formosum, occurring in north Behar, Monahan Bombay J. Nat. Hist. Soc. 19 p. 526; in Lyallpur distr. Punjab, Smith t.c. p. 525; Anas glocitans, in Krosnojarsk, Tugarinov Naša ochota 3 11 pp. 95–96.—N. crecca, albino, Johansen Ornith. Monatsber. 17 p. 139; Anas crecca, in winter in Denmark, Mortensen Köbenhavn Nath. Medd. 1908 p. 127.

Dafila acuta, in Baltistan in July, Home Bombay J. Nat. Hist. Soc. 19: p. 750; Anas acuta, Eicr, Goebel Zs. Oologie 19 pp. 82-87.

Querquedula circia, breeding in east Yorkshire, St. QUINTIN Naturalist London 1909 p. 38.

[Spatula] Anas clypeata, ist es in Deutschland fast so gut wie ausgestorben? KLEINSCHMIDT Falco 5 pp. 14—15; zum Vorkommen in Deutschland Schulze D. Jägerztg 53 pp. 779–780.

[Netta] Fuligula rufina, unrecorded but not uncommon in Egypt, Nicoll. Ibis 1909 p. 638.

[Aythya] Fuligula ferina, nesting in North Kent, Walfole-Bond Brit. Birds 2 1909 p. 383; F. ferina × F. nyroca, exhibition of this hybrid, Montagu Bull. Brit. Ornith. Cl. 23. p. 104.—F. nyroca, new for Sweden, Kolthoff Fauna och Flora 3 1908. p. 52; N. nyroca × A. ferina, in Gouv. Moskau, Beschreibung, Poliakov Semja ochotn. 1909 pp. 262–264.

[Fuligula] Marila marila, abnormal coloration, Henninger Wilson Bull. 21 p. 102.

Clangula glancion, breeding in captivity, Blaauw Ibis 1909 p. 188.— C. islandica, remarks on an example probably referable to this species, killed in Suffolk, Ogilvie Bull. Brit. Ornith. Cl. 23 p. 63; in Massachusetts, compared with C. clangula americana, Brewster Auk 26 pp. 153-164.

Harelda hiemalis, albinos, [Schwedisch], Brander F. Jakttidn. 2 p. 195.

Edemianigra, at Doncaster, Corbett Naturalist 1909 p. 441.—E. fusca, in Shropshire, Forrest Brit. Birds 2 p. 345; Fuligula fusca, Aufenthalt und Nisten im Gouv. Tomsk, Ušakov Naša ochota 3 12 pp. 67-71.—E. deglandi, another Ohio record, Henninger Auk 26 p. 189.

[Heniconetta] Fuligula stelleri, vom Maine bei Frankfurt, LE Roi Ornith. Monatschr. 34 p. 369.

Somateria dresseri, taken at Chicago, DE VINE Auk 26 p. 426.—S. molissima, food habits, ROBINSON Brit. Birds 2 p. 344; Evans t.c. 3 p. 165; Brutwogel der sudlischen Nordsec inseln, Leege Ornith. Monatschr. 34 p. 69.

Nomonyx dominicus, example reported from Georgia, found to be a Lesser Scaup, Arnow Auk 26 p. 189.

Erismatura leucocephala, occurrence near Nowshera, Bombay, Tenison Bombay J. Nat. Hist. Soc. 19 p. 264.

Merganetta berlepschi sp. r. Tucuman, Argentine, Hartert & Venturi Nov. Zool. 16 p. 244.

Mergus albellus, first record for Montgomeryshire, Forrest Brit. Birds 2 p. 311; first record for Egypt, NICOLL Ibis 1909 p. 638.

[Merganser] Mergus merganser, an interesting breeding ground in Switzerland, Zollikofer St. Gallen Jahrb. Natw. Ges. 1904 1905 pp. 219-238; nesting habits in Sutherlandshire, Gilroy Brit. Birds 2 1909 p. 400.—M. serrator, crabs in crop and gizzard Robinson Brit. Birds London 2 p. 311.

ORDER PELICANIFORMES.

Phalacrocorax, la vie dans l'Antaretique, Menegaux Naturaliste Paris 31 p. 65.—P. carbo, zwei Exemplare aus Sud-Finland, [Schwedisch], Brander F. Jakttidn. 2 p. 291; t.c. 3 pp. 22–28 2 Fig.; geschossenes Exemplar in Finland, Broberg t.c. p. 29; Lebenweise, Hennicke, Natur u. Haus 17 pp. 119–123.—P. atriceps, photographs and notes, Bruce Scientific Results Voy. Scotia Zool. figs. 17 20 22 52.

Sula serrator, a rookery photographed on Cat Isle, Bass Straits, White Emu 8 pl. 17.—S. capensis, habits near Cape Town, Taylor J. S. Afric. Ornith. Union 5 p. 84.—S. cyanops, S. sula & S. piscator, colours of soft parts and breeding habits on Los Hermanos Isles, Caribbean Sea, Lowe Ibis 1909 pp. 324-5.

Fregata aquila, observations on breeding habits and colouration, Lowe Ibis 1909 pp. 326 333; Ektoparasiten, Speiser D. Südpolar Exped. Bd. 10 H. 4 pp. 529-532.

Pelecanus, review of the family, Dubois in Wytsman's Genera Avium pt. 7 pp. 1-1 1 plate.—P. crispus, in Kreis Krasnojarsk, Tugarinov Naša ochota 3 11 p. 96.—P. fuscus, auf dem Indian-River in Florida, Garvens-Garvensburg Aus d. Natur 5 pp. 413-416.—P. erythrorhynchos, recent occurrence in Massachusetts, Brewster Auk 26 p. 185.—P. landbecki sp. nov. Chile, Philippi Santiago de Chile Bol. Mus. Nac. 1 p. 63.

ORDER CATHARTIDIFORMES.

[Catharistes] Cathartes urubu, Lebensweise, Werner Wien Mitt. Oest. RehsBd. Vogelk. 9 pp. 27-28 36-38.

Cathartes aura, notes and photographs of the development, Dennis & Petry Indianopolis Proc. Acad. Sci. 1905 p. 61 illustr.

ORDER ACCIPITRIFORMES.

The Falcones of North America, HENNINGER & JONES Wilson Bull. 21 pp. 77-94.

Magen- und Gewölluntersuchungen heimischer Raubvögel, Rörig Berlin Arb. biol. Anst. 7 pp. 473-520.

Ontogenetische und spaltende Variation bei Raptatores, Suschkin Moskva Dnevn. XII. Sjëzda russ. jest. vrač. 1909-1910 g. [Prot.] 1910 p. 283.

Gyp: fulvus, first record from Corsica, JOURDAIN & READ Bull. Brit. Ornith. Cl. 25 p. 23.

Otogyps calvus, nesting in the Himalayas, Kelham Ibis 1909 p. 417.

Neophron perenopterus, nesting near Gibraltar, Kelham Ibis 1909 p. 413.

Milvago chimachima, egg figured, Hartert & Venturi Nov. Zool. 16 p. 237.

Circus melanoleucus, Unterschiede von C. cyaneus, Buturlin Naša ochota 3 11 p. 85-86.

Astur palumbarius, killed near Chalonsur-Soane, Blanc Chalon-sur-Soane Bal. soc. sei. nat. 35 1909 p. 3; wirtschaftliche Bewertung, Zimmermann Bayr. Forstztg. Nürnberg 16 1909 nr. 28 pp. 1-3 und Zs. Ornith. 33 p. 66; Mass- und Gewichtstabelle für Eier, Goebel Zs. Oologie 19 pp. 36-41.—A. brevipes, Lebensweise aus der Boeche di Cattaro, Grossmann Ornith. Jahrb. 20 pp. 218-223; Accipiter brevipes, first occurrence in Egypt, Nicoll Ibis 1909 p. 629.

Accipiter nisus, nesting notes, ELLIOTT Zoologist 13 1909 p. 467; Astur nisus, Eier, SASS N. Balt. Weidm. blt. 4 p. 387; Falco nisus, Leucocytozoon ziemanni et trypanosomes chez l'Epervier, MEZINGESOU Paris C. R. soc. biol. 66 pp. 328-329.—A. velox autumn migration at Point Pelee, Ont. SAUNDERS Ottawa Nat. 23 1909 pp. 156-160.

Buteo hemilasius u. B. ferox, Formenkreis, Kleinschmidt Falco 5 p. 14.-B. buteo, als Wintergäste, THIENEMANN Ornith. Monatschr. 34 pp. 340-342; Vorkommen u. Lebensweise auf den Canaren, Polatzek Ornith. Jahrb. 20 pp. 202-210; Masse und Gewicht der Eier, Pousar Zs. Oologie 19 pp. 5-6; B. vulgaris, on the number of fulldeveloped young, WEIBULL Köbenhavn Ornith. Tids. 3 p. 161; food, BARTHOS Aquila 15 1908 pp. 307-308; Biologie und Verbreitung in der Schweiz, FISCHER-SIGWART Tierwelt Aarau 18 1908 pp. 15 26 39 67 etc.—B. swainsoni, in Michigan. TAVERNER Auk 26 p. 83.-Buteo borealis alascensis subsp. n., Alaska, Grinnell Berkeley Univ. Cal. Pub. Zool. 5 pp. 211-212.—Buteo tropicalis sp. n., San Domingo, VERRILL

Philadelphia Pa. Proc. Acad. Nat. Sci. 61 pp. 357 358.

Gypaëtus barbatus, utile ou nuisible? ROTHSCHILD Rev. Fr. d'Orn. 1 p. 105; Lebensweise, PURTSCHER Schweis. Bl. Ornithol. Zurich 28 1904 pp. 459-460 471-472 483-484 495-496; nesting and other habits in the Himalayas, Kelham Ibis 1909 p. 415.

Uroaëtus audax, memoir on the osteology, Scott Launceston Tasmania pp. 1-16 8vo.

Aquila verreauxi, habits in the Cape district, Cape Colony, TAYLOR J. S. Afric. Ornith. Union 5 p. 81.—A. chrysactus, home-life in Scotland photographed and described, MACPHERSON London 1909 sm.4to; past and present occurrence in Ayrshire, PATERSON Glasgow Nat. 1 pp. 28-32.—A. clanga, Eier, Sass N. Bult. Weidm.-Blt. 4 1908 p. 386.

Archibuteo lagopus, occurrence in Egypt, Nicoll Ibis 1909 p. 628; als Wintergäste, Thienemann Ornith. Monatschr. 34 pp. 340-342; Buteo lagopus, tuée dans la forêt de Perceigne (Sarthe), Letaco Rouen Bul. soc. amis sei. nat. 42 1907 p. 8.—A. hemiptilopus, on a nest from Tibet, Bailey Bombay J. Nat. Hist. Soc. 19 p. 523.

[Eutolmaëtus] Nisaëtus fasciatus, nesting near Gibraltar, Kelham Ibis 1909 p. 413.—Aquila pennata, Massund Gewichtstabelle fur Eier, Goebel, Zs. Oologie 19 pp. 36-41; Verbreitung in der Schweiz, Fischer-Sigwarf Schweiz Bl. Ornithol. Zurieh 32 pp. 68 81 93 106; A. minuta, Flugbewegungen, Junge, Fenenko Mater. faun. flor. Ross. 9 pp. 251-257 f. 1-2.

Circaëtus gallicus, Verbreitung in der Schweiz, EISCHER-SIGWART Schweiz Bl. Ornithol. Zurich 32 pp. 68 81 93 106; the question of its breeding in Côted'Or., France, VAUCHER Rev. Fr. d'Orn. 1 pp. 84-86; Brutvogel Westpreussens, Dobbrick Ornith. Monatschr. 34 p. 208.

Spizaëtus nepalensis, extends to Malay Peninsula, Robinson J. Fed. Malay Mus. 4 p. 133.

Haliaëtus albicilla, past and present distribution in Ayrshire, PATERSON Glasgow Nat. 1 pp. 28-32; Vorkommen in Mecklenburg, KARRIG Ornith. Monatschr. 34 p. 168; Flugbreite, KLEINSCHMIET Falco 5 p. 15.—H. leucocephalus, its rapid extermination in Ontario, SAUNDERS Ottawa Nat. 23 1909 pp. 116-117; captured near Chicago, Ill., TAYLOR WOODS & FISHER Auk 26 p. 191.—H. leucocephalus alascanus, life history and nesting habits, DIXON Condor 11 p. 187.

Milvus milvus, Eier, NILSSON Zs. Oologie 19 p. 141; M. ictinus, efforts at protection in Wales, OWEN & VAUGHAN Bull. Brit. Ornith. Cl. 23 pp. 88-93; M. milvus & M. korschun, Eier, Goebbel Zs. Oologie 19 p. 113.— M. aegyptius, migration movements in S. Kamerun, Bates Ibis 1909 p. 11.

Falco peregrinus, nesting in Yorkshire cliffs, Sapsworth Brit. Birds 3 1909 pp. 52 127; Wade & Clarke t.c. p. 85; use in falconry in India, Phillott J. As. Soc. Beng. 4 pp. 259-265; als Gast auf der Insel Sylt, Schlüter Falco 5 pp. 17-19 1 Taf.; Masse und Gewichte von eiern aus Island, Hantzch t.c. pp. 4-5; Zug im Golf von Mexico, Thielemann t.c. pp. 1-3; F. peregrinus und Syrnium aluco in einem Horste brutend, Ganske Zs. Oologio 19 p. 73.—F. peregrinus rudolphi subsp. r., Japan, Kleinschmidt Falco 5 p. 19.—F. barbarus, auf Tenerife, Thanner Ornith. Jahrb. 20 pp. 148-150.—F. feldeggi, in Abruzzo, Leone Boll. Soc. zool. ital. 10 pp. 132-141 1 fig.—F. subbuteo, sua modificazione nell' Abruzzo, Leone t.c. pp. 129-131 1 fig.

[Hierofalco] Falco islandicus, killed in Scotland, SMALLEY Brit. Birds 2 1909 p. 310.—F. rusticolus obsoletus, in Connecticut, SAGE Auk 26 p. 429.—F. sacer, ein deutscher Wurgfalke, BAER Ornith. Monatschr. 34 p. 196; in Ostpreussen, TISCRLER Ornith. Monatschr. 34 p. 279.—F. mexicanus, nesting near Littleton, Colo., RICHARDS Condor 11 p. 164 2 figs.; in western Minnesota, ROBERTS Auk 26 p. 191.

Cerchneis cenchris, appearance at Szepesseg, Hungary, Greschik Aquila 16 р. 305.

[Erythropus] Cerchneis vespertina, lebensweise, Hocke D. Jägerztg 53 pp. 827-830 844-845.

Pandion haliaëtus, in Essex, Tower Brit. Birds 2 1909 p. 383.

†Teratornis gen. n. (Teratornithidae fam. r.), merriami sp. n. California, Quaternary, MILLER Berkeley Univ. Cal. Pub. Bull. Dept. Geol. 5 1909 pp. 205-317.

ORDER STRIGIFORMES.

Some Owls along the Gila river Ariz. U.S.A., GILMAN Condor 11 p. 145.

Asio otus, occurs near Lerwick, Shetland in February, Tulloch Ann. Scot. Nat. Hist. 1909 p. 115.—A. wilsonianus, in Shelburne, N.H., Deane Auk 26 p. 78.

Bubo bubo, in Gefangenschaft, Behm zool. Beob. 50 p. 225; in Böhmen, Loos Ornith. Jahrb. 20 pp. 152-153.—
B. virginianus scotinus s.b.p. r., Caicara, Venezuela, and notes on the names of the American forms, OBERHOLSER Brooklyn Mus. Bull. 1 p. 371.—
B. ascalaphus desertorum, occurrence near Cairo, Nicoll Ibis 1909 p. 625.

[Scops] Pisorhina scops bascanica subsp. n., Semiretschje, Turkestan, Johansen Tomsk Izv. Univ. 22 p. 25. —Otus steeri sp. r., Tumindao isle, Philippines, Mearns Proc. U.S. Nat. Mus. 36 p. 437.

[Psiloscops] Otus flammeola nesting in Huachuca mts. Ariz., WILLARD Condor 11 p. 199 4 figs.

Syrnium aluco, Ernährung in der Schweiz, Loos Ornith. Beob. Bern 6 1908 pp. 72-78.—S. uralense, in Gefangenschaft, Behm Zool. Beob. 50 p. 225; Wintererscheinung in Ungarn, SCHENK Termt Közl. 41 pp. 117-119; Massenhaft in Ungarn, SCHENK Aquila 15 1908 pp. 323-325.—Strix occidentalis caurium, record for Brit. Columbia, BROOKS Auk 26 p. 313.

[Scotiaptex] Syrnium lapponicum, in Süd-Finland (Finnisch), SUOMALAINEN Medd. Soc. Fauna et Fl. Fenn. 35 p. 4; Deutsches Ref. p. 329.

Athene noctua, in Oxfordshire, Fowler Brit. Birds 2 1909 p. 280; first record of breeding in Derbyshire, Wells Brit. Birds London 3 1909 p. 84.—A. noctua spilogaster, first one scen in the Sudan, Butler Ibis 1909 p. 401.—Strix athene saharae subsp. r., Sahara, Kleinschmidt Falco 5 p. 19.

Speotyto hypogaea, has a note resembling the rattlesnake's rattle, HARRIS Amer. Nat. 43 p. 754; Cunicularia hypogaea, habits in British Columbia, Verables Ottawa Nat. 22 1909 p. 261.

Glaucidium sjöstedti, nesting and eggs, Bates Ibis 1909 p. 13.

Strix pratincola, status in Pickaway co. Ohio, Bales Wilson Bull. 21 p. 35; Aluco pratincola, early nesting in Delaware, Pennock Auk 26 p. 305; in British Columbia, Brooks t.c. p. 313.

ORDER PSITTACIFORMES.

Nestor notabilis, its habitat, habits and its sheep-killing propensities, Marriner, The Kea, a New Zealand problem. Christchurch N.Z. 1908.

Chalcopsittacus ater, breeding in captivity, Brook Avicult. Mag. 1 1909 p. 28.

Lorius cyananchen viridicrissalis subsp. n. Humbolt Bay, New Guinea, Beaufort Nova Guinea 5 p. 403.

Trichoglossus, specific variation, Hall Emu 9 p. 83.

Cyclopsitta desmarestii intermedia subsp. n., New Guinea, OORT Notes Leiden Mus. 30 p. 229.

Licmetis nasica Tomm., should be L. tenuirostris Kuhl, Mathew Bull. Brit. Ornith. Cl. 25 p. 24.

Conurus aeruginosus tortugensis subsp. n. Tortuga Isle, p. 220, and C. neoscenus sp. n. Margarita Island, p. 243 West Indies, CORY Field Mus. Publ. Ornith. 1 1909.

[Amazona] Chrysotis guildingi, danger of extinction in St. Vincent W.I., Lowe Ibis 1909 p. 308.—C. rothchildi, comparisons and criticisms, Lowe Ibis 1909 p. 330.—A. hagenbecki, a hitherto unrecognized species of Russ recalled, Butler Avicult. Mag. 7 p. 198.

Psittacus erythracus, breeding in captivity in Madeira, Reid Avicult. Mag. 7 p. 129; Naturgeschichte, Plege, Abrichtung und Züchtung, Russ 1909 pp. vii + 108 1 Taf.—P. princeps, sp. n., Princes Isle, West Africa, ALEXANDER Bull. Brit. Ornith. Cl. 23 p. 74.

Prioniturus malindangensis sp. n. Mindanao, Philippine I., MEARNS Proc. U.S. Nat. Mus. 36 p. 437.

Agapornis cana, peculiar coloration assumed in captivity, Hartley Avicult. Mag. 7 p. 175.—A. taranta, in captivity, Astley Avicult. Mag. 1 1909 p. 23 coloured plate.—A. nigrigenis, breeding and other habits in captivity, Phillipps Avicult. Mag. 7 1909 p. 148; exhibition and remarks, Sclater Bull. Brit. Ornith. Cl. 25 p. 11; note on, Haagner J. S. Afric. Orn. Union 5 p. 16 pl. 1.

Platycercus flaviventris Temm., should be P. browni Kuhl, and P. browni Temm., should be P. venustus Kuhl, Mathew Bull. Brit. Ornith. Cl. 25 p. 24.

Porphyrocephalus spurius, nesting in captivity, ASTLEY Avicult. Mag. 7 1909 p. 291.

Psephotus cucultatus, sp. n., Pine Creek, N. Australia, doubtfully distinct from P. dissimilis, NORTH Vict. Nat. 25 pp. 175-3.

Neophema venusta, Temm., should be N. chrysostomus Kuhl, MATHEW Bull. Brit. Ornith. Cl. 25 p. 24; nesting in captivity, FASEY Avicult. Mag. 7 p. 357.

Nymphicus cornutus & N. uvaeensis, avicultural notes, Butler Avicult. Mag. 1 1909 p. 62.

ORDER CORACIIFORMES.

Sub-Order Coraciae.

Coracias garrulus, occurrence in Cumberland, Hope Zoologist 13 p. 156; im Kirchspiel Pihtipudas, Finland, Brander F. Jakttidn. 2 p. 196.

Sub-Order Halcyones.

[Pelargopsis] Ramphalcyon Reichenbach, proper name for Pelargopsis Gloger nom. nud. p. 659, R. capensis (Linnaeus), proper name for Pelargopsis fraseri Sharpe, pp. 663-664, R. c. isoptera subsp. n., Sumatra, pp. 671-673, R. c. nesoeca subsp. n., Sumatra, pp. 674-975, R. c. cyanopteryx subsp. n., Sumatra, pp. 676-677, R. c. hydrophila subsp. n., Singapore I., pp. 677-678, Oborholser Proc. U. S. Nat. Mus. 35 pp. 657-980.—R. capensis smithi subsp.

n. Masbate Isle, Luzon, Philippines, MEARNS Proc. U.S. Nat. Mus. 36 p. 466.

Ceryle rudis, Fortpflanzung, Box-BERGER Zs. Oologie 19 p. 51.

Alcedo semitorquata, Brutplatz und Eier in Ostafrika, Boxberger Zs. Oologie 19 pp 21-22.

Ceyx tridactyla, at Matheran, W. India, KINNEAR Bombay J. Nat. Hist. Soc. 19 p. 749.

Clytoceyx rex imperator, subsp. n., southern Dutch New Guinea, OORT Nova Guinea 9 p. 79 Leide 1909.

Halcyon badius, nest and eggs, BATES Ibis 1909 p. 23.—H. pileata, in the Thana district, Bombay, SAVILE Bombay J. Nat. Hist. Soc. 19 p. 260.—H. albiventris orientalis, Brutplatz und Eier in Ostafrika, BOXBERGER ZS. Oologie 19 pp. 21-22.—H. toriu sp. n., Bismarck-Archipel, MEYER Ornith. Monatsber. 17 p. 34.

Sub-Order Bucerotes.

[Bycanistes] Buceros sharpii, sur le type, Dubois Paris Bul. soc. zool. 34 pp. 129-133.

Sub-Order Upupae.

Upupa epops, in Merioneth, Forrest Brit. Birds 2 p. 343; in Lappland, [Schwedisch], Montell F. Jakttidn. 2 p. 346.—U. epops major, rediscovery of this subspecies in Egypt, NICOLI Ibis 1909 p. 483 and Bull. Brit. Ornith. Cl. 28 p. 100.—U. epops saturata subsp.r., Transbaicalia, Lönnberg Arkzool. 5 No. 9 p. 29; also Bamberg Zs. Oologie 19 p. 137.

Sub-Order Meropes.

Melittophagus gularis australis, egg described, Bates Ibis 1909 p. 24.

Merops apiaster, colony near Titel, S. Hungary, Lowieser Aquila 16 p. 307.—M. albicollis, habits in Kamerun, Bates Ibis 1909 p. 24.

Sub-Order Caprimulgi.

Chordeiles virginianus minor, habits in Jamaica, Attewell Avicult. Mag. 7 1909 p. 96.

Hydropsalis furcifer, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 224. Eleothreptus anomalus, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 225.

Phalaenoptilus nuttalli californicus eggs and nesting site, MAILLARD Condor 11 p. 45 fig.

Caprimulgus parvulus, egg figured, Hartert & Venturi Nov. Zool. 16 p. 225.—Antrostomus carolinensis, breeding north of James river Va., Bailey Auk 26 p. 306.—C. europaeus, Zucht, Heinroth J. Ornith. 57 pp. 56–83 4 Taf.; in der Umgeb. von Lübeck, Hagen Ornith. Monatschr. 34 p. 194.—C. batesi, habits, eggs and coloured plate, Bates Ibis 1909 p. 25 pl. i.—C. ruwenzorii, sp. p. Ruwenzori, Č. Africa, Ogilvie-Grant Bull. Brit. Ornith. Cl. 23 p. 94.

Sub-Order Cypseli.

Collocalia fuciphaga, auf Java, Volz Ornith. Beob. Bern 4 1905 pp. 145-153.—C. fusciphaga capnilis subsp. n China and C. inopina sp. n. China, Thayer and Bangs Cambridge Mass. Bull. Mus. Comp. Zool. 52 pp. 139-140.

—C. francica, eggs and nesting habits in N. Queensland, Campbell Emu 8 p. 146.—C. bartschi sp. n. Guam, Pacific Ocean, Mearns Proc. U. S. Nat. Mus. 36 p. 476.

Chaetura caudacuta, in Bezirk Jenisseisk, Tugarinov Naša ochota 3 11 pp. 97-98; its food in Queensland, Tryon Queensl. Nat. 1 p. 38.

Aeronantes melanolencus, nesting on Slover mountain, California, Hanna Condor 11 p. 77.

Cypselus melba, occurring in Pembrokeshire, Cave British Birds 2 1909 p. 381; neuere Berichte über die Berner Kolonie, Dant Ornith. Beob. Bern 5 1906 pp. 1-5 17-22 33-39.—C. apus, early appearance in Scotland, Serle Ann. Scot. Nat. Hist. 1909 p. 183; young living away from nest, Hugues Nîmes Bul. soc. étud. sci. nat. 35 p. 74; curious death, Fortune Naturalist London 1909 p. 111; auffallend frühe Ankunft in 1909, Hennemann & Lindner, Ornith. Monatschr. 34 p. 277; Apus apus, en captivité, Paris Paris Bul. soc. zool. 33 1909 p. 147; frühszeitige Ankunft, Wemer Ornith. Monatschr. 34 p. 370; von meinem

Mauerseglerpaar, TSCHUSI ZU SCHMIDHOFFEN Ornith. Monatschr. 34 pp. 441-442; Lebensweise, ROTHE Sanct Hubertus 27 pp. 250-251.—A. pacificus, migration movements in Siberia, HALL Emu 8 p. 148 pl. 13.—C. affinis, Verbreitung im Kaukasus, SATUNIN Jestestv. i geogr. 14 7 pp. 6-7.—A. andecolus dinellii, correction in original description, HARTERT Bull. Brit. Orn. Cl. 25 p. 16.

Sub-Order Trochili.

Geographical distribution of the Humming-birds in central and eastern Brazil, GOUNELLE Ornis London 13 1909 pp. 172-183.

An instance of hybridization in humming-birds, with remarks on the weight of generic characters in the *Trochilidae*, TAYLOR Auk 26 pp. 291-293.

Hybridism and generic characters in the *Trochilidae*. [With reference to an article by Walter P. Taylor.], RIDGWAY Auk 26 pp. 440-442.

L'oiseau-mouche dans son habitat, Forbin Nature Paris 37 2° sem. pp. 311-315 fig.

Phaëtornis gounelli, habits, Gounelle Ornis London 13 1909 p. 181.

Campylopterus largipennis, habits and distribution, Gounelle Ornis London 13 1909 p. 181.

[Agyrtria] Polyerata cyaneotincta sp. n., Columbia, Gounelle Paris Rev. Fr. d'Orn. 1 p. 17.

[Lepidopyga] Sapphironia luminosa Lawr. probably a synonym of Thalurania coelina Bourcier, Simon Rev. Fr. d'Orn. 1 pp. 65-66.

Thalurania glaucopsis, T. watertoni and T. eriphyle, distribution in Brazil, GOUNELLE Ornis London 13 1909 p. 181.—T. furcata intermedia, subsp. r. Rio Tocantins, Brazil, SNETHLAGE Bol. Mus. Goeldi Para 5 1909 p. 438.

Lampornis hendersoni and L. prevosti, critical notes, Simon Rev. Fr. d'Orn. 1 p. 9.

Chrysolampis mosquitus, distribution in Brazil, Gounelle Ornis London 13 1909 p. 181.

Augastes superbus et A. lumachellus habits and distribution in Brazil, GOUNELLE Ornis London 13 1909 p. 182.

Heliactin cornutus, habits in Brazil, Gounelle Ornis London 13 1909 p. 181.

Selasphorus platycercus, nesting in Montana, SAUNDERS Condor 11 p. 197.

Stephanoxis delalandei, distribution in Brazil, Gounelle Ornis London 13 1909 p. 183.

Sub-Order Colii.

Review of the family Coliidae, SCLATER in Wytsman's Genera Avium pt. 6 pp. 1-6 1 plate.

Colius nigricollis nigriscapalis, nest and eggs, BATES Ibis 1909 p. 21.— C. macrurus, coloration of "soft parts" BUTLER Avicult. Mag. 7 1909 p. 94.

ORDER TROGONES.

Prionotelus temnurus, exhibited at the London Cage-bird Association's Show and figured, Seth-Smith Avicult. Mag. 7 1909 p. 111.

Trogon melanocephalus illaetabilis subsp. n. Bolson, Costa Rica, Bangs Washington Proc. Biol. Soc. 22 p. 30.

Microtrogon gen. n., proposed for Trogon ramonianus Des Murs, Goeldi Bol. Mus. Goeldi Para 5 1909 pp. 92-95.

ORDER COCCYGES.

Sub-Order Musophagi.

Review of the family Muscophagidae, Dubois in Wytsman's Genera Avium pt. 8 pp. 1-9 2 plates.

Turacus zenkeri, nesting and eggs, BATES Ibis 1909 p. 13.

Sub-Order Cuculi.

Cuculus canorus, habits of a fully fledged young bird, MACGREGOR Perth Trans. Soc. Nat. Sci. 5 1909 p. 30; note on eggs, Colthrup Brit. Birds 2 1909 p. 424; observations sur les moeurs et la reproduction, Ceppi Paris Bul. soc. nat. acclim. 55 1908 pp. 497-505; young one reared in window of a country house near Budapest, Csörgey Aquila 16 p. 277; Farbenvarictăt aus dem Ussuri-Gebiet, Buturlin Nasa ochota 3 11 pp. 88-89.—C. gabonensis, habits and eggs, Bates Ibis 1909 p. 15.

Chalcococcyx basalis a parasite on Acanthiza uropygialis, Sandland Emu 8 p. 150; habits and occurrence in Tasmania, Dove Selbourne Mag. 20 1909 p. 127.—C. lucidus, reverting to nest building, Fulton Ibis 1909 p. 384.

Centropus monarchus, habits, nesting and eggs, Bates Ibis 1909 p. 13.—C. senegalensis, in South Africa, Chubb Ibis 1909 p. 153.—C. superciliosus, notes on habits in captivity with a fig., Gurney Avicult. Mag. 7 1909 p. 119.

Piaya, review of the genus, P. cayana caucae sub:p. n. Rio Cauca, Columbia pp. 499-500, P. cayana boliviana, subsp. p. Yungas, Bolivia p. 501, STONE Philadelphia Proc. Acad. Nat. Sci. 60 pp. 492-501.—P. cayana obscura subsp. p. Rio Purús. Brazil, SNETHLAGE Bol. Mus. Goeldi 5 1909 p. 65.

ORDER SCANSORES.

Sub-Order Indicatores.

Indicator stictithorax and I. conirostris, habits, BATES Ibis 1909 p. 15.

Melignomon robustus, sp. p. Cameroon, Bates Bull. Brit. Ornith. Cl. 25 p. 26.

Sub-Order Capitones.

Gymnobucco peli, specific characters, habits and eggs, BATES Ibis 1909 p. 17.

[Heliobucco] Gymnobucco bonapartei, specific characters, habits and eggs, BATES Ibis 1909 p. 17.

Barbatula leucolaema and B. subsulphurea, habits and eggs, BATES Ibis 1909 p. 18.

Trachyphonus cafer, habits in captivity with coloured plate, Horsbrugh, Avicult. Mag. 7 1909 p. 337.

Sub-Order Rhamphastides.

Pteroglossus reichenowi sp. n. Monte Alegre, Brazil, SNETHLAGE Bol. Mus. Goeldi Para 5 1909 p. 439.

ORDER PICIFORMES.

Sub-Order Galbulae.

Review of the family Galbulidae, Solater in Wytsman's Genera Avium pt. 10 pp. 1-7 1 plate. Galbalcyrhynchus purusianus v. G. innotatus, question of priority, Goeldi Bol. Mus. Goeldi Para 5 1909 p. 85.

Sub-Order Buccones.

Bucco noanamae, sp. n. Western Columbia, Hellmayr Bull. Brit. Ornith. Cl. 25 p. 21.

Sub-Order Pici.

Colaptes auratus luteus, eggs in an odd place, Brewster Bird-Lore 11 p. 73.

Gecinus viridis, on foot pads present in the young bird, Stonham Ibis 1909 p. 619 text-fig. 11; Picus viridis, Farbenvarietaten, Laubmann Ornith. Monatsber. 17 pp. 112-113.

Chloronerpes paraensis sp. n. near Belem, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 440.

[Campothera] Dendromus efulensis, figure of nest and description of eggs, BATES Ibis 1909 p. 20.

Sphyropicus varius, a remarkable migration at Kingston, Ont. on April 17th, Klugh Ottawa Nat. 23 1909 p. 115.

Dendrocopus major mongolus subsp. p. N. Mongolia, LÖNNBERG Ark. zool. 5 No. 9 p. 24 f. 9.—D. syriacus milleri subsp. n. Beludschistan, SARUDNY Ornith. Monatsber. 17 p. 81.-Dryobates villosus terrae-novae subsp. n., Newfoundland, BATCHELDER Proc. N. Engl. Zool. Cl. 4 pp. 37-38.—Dendrocopus pubescens, shot in Gloucestershire, SMALL-GOMBE Brit. Birds London 2 1909 p. 382.—D. minor, breeding in Merioneth, FORREST Brit. Birds 2 1909 p. 343. -D. minor and D. leuconotus, notes on subspecies occurring in Manchuria, INGRAM Ibis 1909 pp. 450 451.—D. minor and D. major, nesting in Staffordshire, Duncalfe Zoologist 13 1909 p. 29.

Picoides americanus fumipectus subsp. n., Alaska, Grinnell Berkeley Univ. Cal. Pub. Zool. 5 pp. 217-218.

Yungipicus siasiensis sp. n. Siasi isle, Philippines, Mearns Proc. U. S. Nat. Mus. 36 p. 438.

Picus martius, im Schilfwalde, Israël Ornith. Monatschr. 34 pp. 28-30 1 Taf.; GRUTZNER t.c. pp. 246-247; GROSS t.c. p. 306. Picumnus cirrhatus tucumanus subsp.
n. Tucuman, Argentine, Hartert & Venturi Nov. Zool. 16 p. 229.—P. olivaceus harterti subsp. n. Ecuador, Hellmayr Bull. Brit. Ornith. Cl. 23 p. 67.

Verreauxia africana, habits and eggs, BATES Ibis 1909 p. 19.

Iynx torquilla mauretanica, subsp. n. Algeria, Rothsohild Bull. Brit. Ornith. Cl. 23 p. 103.

ORDER PASSERIFORMES.

EURYLAEMIDAE.

Eurylaimus javanicus harterti subsp. n. Sumatra, Oort Leiden Notes Mus. Jentink 31 p. 209.

MENURIDAE.

Menura superba, nesting habits at Poowong, Vict., Cook Emu 8 p. 220.

FORMICARIIDAE.

Thamnophilus gilvigaster dinelli, egg figured, Hartert & Venturi Nov. Zool. 16 p. 221.—Dysithamnus capitalis squamosus, subsp. n. Rio Tocantins, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 442.—T. huberi sp. n. Rio Tapajós, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 441.

Megastictus gen. n., type Myrmeciza margaritata Sclater, RIDGWAY Washington Proc. Biol. Soc. 22 p. 69.

Myrmopagis gen. n., type Myrmothera axillaris Vieillot, RIDGWAY Washington Proc. Biol. Soc. 22 p. 69.

Formicivora iheringi sp. n. Bahia State, Brazil, Hellmayr Rev. Fr. d'Orn. 1 p. 98.—F. cano-jumosus sp. n. Las Barrancas, Venezuela, Cherrie Bul. Mus. Brooklyn 1 1909 p. 387.—F. melanogastra bahiae subsp. n. State of Bahia, Brazil, Hellmayr Bull. Brit. Ornith. Cl. 23 p. 65.

Myrmorchilus gen. n., type Myiothera strigilata Maximilian, RIDGWAY Washington Proc. Biol. Soc. 22 p. 69.

Gymnopithys purusianus sp. nov.? Rio Purús, Brazil, Snethlage Bol. Mus. Goeldi 5 1909 p. 59.—Anoplops berlepschi sp. n., Rio Tapajós, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 443.—A. rufigula pallidus (n-11091 g)

subsp. n. Caura river, Venezuela, Cherrie Bull. Mus. Brooklyn 1 1909 p. 390.

Myrmelastes goeldii, sp. n. Rio Purús, Brazil, Snethlage Bol. Mus. Goeldi 5 1909 p. 57.—Myrmeciza zeledoni, Guayabo, Costa Rica, M. berlepschi Chimbo, western Ecuador, spp. n. RIDGWAY Washington Proc. Biol. Soc. 22 p. 74.

Myrmoderus gen. n., type Myiothera loricata Lichtenstein, RIDGWAY Washington Proc. Biol. Soc. 22 p. 70.

Hylophylax gen. n., type Conopophaga naevioides Lafresnaye, RIDGWAY Washington Proc. Biol. Soc. 22 p. 70.

Phaenostictus gen. n., type Phlegopsis macleannani Lawrence, RIDGWAY Washington Proc. Biol. Soc. 22 p. 70.

Grallaria macularia berlepschi subsp. n. Rio Guama, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 443.

Oropezus gen. n., type Grallaria rufula Lafresnaye, RIDGWAY Washington Proc. Biol. Soc. 22 p. 70.

Hylopezus gen. n., type Grallaria perspicillata Lawrence, RIDGWAY Washington Proc. Biol. Soc. 22 p. 71.

DENDROCOLAPTIDAE.

Furnarius rufus rufus, on the nest, Ménégaux C. R. soc. biol. 66 pp. 141-143; et Bul. muséum Paris 1909 pp. 6-12 fig.

Sylviothorhynchus fasciolatus, sp. n. Victoria, Chile, Philippi Santiago de Chile Bol. Mus. Nac. 1 p. 65.

Leptasthenura aegithaloides, berlepschi subsp. n., Jujuy, Argentine, HARTERT & VENTURI Nov. Zool. 16 p. 210.

Synallaxis albescens hypoleuca subsp. n. Natá Coclé, Panama, RIDGWAY Washington Proc. Biol. Soc. 22 p. 73.

Rhoporchilus gen. n., type Formicivora speciosa Salvin, RIDGWAY Washington Proc. Biol. Soc. 22 p. 69.

Schoeniophylax gen n., type Sylvia phryganophila Vieillot, RIDGWAY Washington Proc. Biol. Soc. 22 p. 71.

Siptornis steinbachii sp. n. Prov. Salta, Argentine, Hartert & Venturi Nov. Zool. 16 p. 213.

Acrorchilus gen. n., type Synallaxis erythrops Sclater, RIDGWAY Washington

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Proc, Biol. Soc. 22 p. 71, A. erythrops griseigularis subsp. n., San Antonio, Rio Cali, Columbia, Ridgway t.c. p. 72.

Phaceloscenus gen. n., type Anumbius striaticollis D'Orbigny and Lafresnaye, RIDGWAY Washington Proc. Biol. Soc. 22 p. 71.

Drioctistes gen. n., type Thripophaga sclateri Berlepsch, RIDGWAY Washington Proc. Biol. Soc. 22 p. 71.

Automolus cervinigularis hypophaeus subsp. n. Guayabo, Costa Rica (Rio Reventazon), Ridgway Washington Proc. Biol. Soc. 22 p. 72.

Rhopoctites gen. n., type Philydor rufo-brunneus Lawrence, RIDGWAY Washington Proc. Biol. Soc. 22 p. 72.

Hyloctistes gen. n., type Philydor virgatus Lawrence, RIDGWAY Washington Proc. Biol. Soc. 22 p. 72.

Premnornis gen. n., type Margarornis guttata Lawrence, RIDGWAY Washington Proc. Biol. Soc. 22 p. 71.

Hylexetastes uniformis sp. n. Madeira river, Brazil, HELLMAYR Rev. Fr. d'Orn. 1 p. 100.

Xiphocolaptes promeropirhynchus berlepschi subsp. n. Rio Purús, Brazil, Snethlage Bol. Mus. Goeldi 5 1909 p. 54.

Picolaptes affinis neglectus subsp. n., Coliblanco, Costa Rica, RIDGWAY Washington Proc. Biol. Soc. 22 p. 73.

Xiphorhynchus flavigaster yucatanensis subsp. n. Temax, Yucatan; X. punctigula insolitus subsp. n. Cascajal, Cocle, Panama; X. lacrymosus rostratus subsp. n. Rio Dagua N.W. Columbia, Ridgway Washington Proc. Biol. Soc. 22 p. 73.—X. multostriatus sp. n. Rio Tocantins, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 444.

Campylorhamphus chapmani sp. n., locality unknown, RIDGWAY Washington Proc. Biol. Soc. 22 p. 74.

Dendrocolaptes validus costaricensis, subsp. n. Laguaria, Santa Maria de Dota, Costa Rica, RIDGWAY Washington Proc. Biol. Soc. 22 p. 73.—D. hoffmannsi, sp. n. Rio Madeira, Brazil, HELLMAYR Bull. Brit. Ornith. Cl. 23 p. 66.

TYRANNIDAE.

The Migration of Flycatchers, Cooke Bird-Lore 11 pp. 12-14.

Taenioptera cinerea & T. coronatus, eggs figured, Hartert & Venturi Nov. Zool. 16 p. 189.

Knipolegus cabanisi, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 192.

Euscarthmus iohannis sp. n. Rio Purús, E. zosterops minor subsp. n. Rio Tocantins, E. griseipectus sp. n. Rio Tocantins, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 pp. 145-146.

Snethlagea gen. n. für Euscarthmus zosterops minor Snethl., Вексерси J. Ornith. 57 pp. 104.

Hapalocercus flaviventris & H. sclateri, eggs figured, Hartert & Venturi Nov. Zool. 16 p. 196.

Serpophaga munda, egg figured, Hartert & Venturi Nov. Zool. 16 p. 197.
—Serpophaga pallida sp. n, Rio Tocantins, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 446.

Mionectes rufiventris, new to the Argentine, HARTERT & VENTURI Nov. Zool. 16 p. 200.

Inezia gen. n. for Capsiempis caudata Salvin, CHERRIE Bull. Mus. Brooklyn 1 1909 p. 390.

Phyllomyias sclateri, new to the Argentine, Hartert & Venturi Nov. Zool. 16 p. 200.

Myiobius erythrurus hellmayri subsp. n. Para, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 444.

Empidonax virescens, in Ontario, SAUNDERS Auk 26 p. 430.

PIPRIDAE.

Pipra caelesti-pileata v. P. exquisita, question of priority, Goeldt Bol. Mus. Goeldi Para 5 1909 p. 85.—P. fascicauda purusiana subsp. n. Rio Purús, Brazil, SNETHLAGE Bol. Mus. Goeldi Para 5 1909 p. 447.

COTINGIDAE.

Pachyrhamphus polychropterus polychropterus, egg figured, Hartert & Venturi Nov. Zool. 16 p. 205.—P. marcidus sp. n. Las Barrancas, Venc-

zuela, Cherrie Bull. Mus. Brooklyn 1 1909 p. 389.

Cephalopterus ornatus, first importation alive to England, Finn Avicult. Mag. 7 1909 p. 362.

PHYTOTOMIDAE.

Phytotoma rutila & P. rara, eggs figured, Hartert & Venturi Nov. Zool. 16 p. 206.

PITTIDAE.

Pitta schneideri sp. n. N.W. Sumatra, HARTERT Bull. Brit. Ornith. Cl. 25 p. 9.

HIRUNDINIDAE.

Chelidonaria urbica, nesting habits, NAGY Aquila 15 1908 p. 311; Chelidon urbica, migrations, Kirchner Besançon Mem. soc. d'ém. Doubs 8th scr. 3 pp. 432-440; un curieux nid, Paris Rev. Fr. d'Orn. 1 p. 77; das Leben der Stadtschwalbe aus einen Manuskript, Fischer-Sigwart Aaran Mitt. Natf. Ges. 10 pp. 1-54; Hirundo urbica, nesting in natural cliffs in the north of France, Reboussin Rev. Fr. d Orn. 1 p. 119; C. urbica und Cotyle riparia, Bestimmungstabelle für Eier, Goebel Zs. Oologie 19 pp. 1-4, 19-21.

Hirundo rustica, marked Swallows at Rossitten, THIENEMANN Ornith. Monatsber. 17 pp. 150-152 181-182; critical remarks on subspecies occurring in Manchuria, Ingram Ibis 1909 p. 437; dates d'arrivée et de départ dans le Departement de la Côte-d'Or., Paris Paris Rev. Fr. d'Ornith. 1 p. 12; ucber Nistgelegenheit, NEUBAUR Ornith. Monatschr. 34 p. 172; frühe Ankunft 1909, Toepel t.c. p. 276; aberrant gefärbte, Jordans Ornith. Monatsber. 17 p. 5; Schwalbenster; ben 1909, Schuster Zool. Anz. 35 pp. 93-95.-H. rufula, second recorded British example killed in Kent, NICOLL Bull. Brit. Ornith. Cl. 23 p. 93 and Brit. Birds 3 p. 122.—H. gordoni & H. nigrita, habits in Kamerun, BATES Ibis 1909 p. 27.—Hirundo sp.? migration across Red Sea, HAUGHTON Ibis 1909 p. 189.

Progne subis, an experiment in the colonization, MILLER Worthington Soc. Study Bird Life Bull. No. 1 1909 pp. 1-12 4 pls.

(n-11091 g)

Petrochelidon ariel, nests photographed, BARNARD Emu 9 p. 92 pl. 6.

Psalidoprocne nitens, nesting habits and eggs, BATES Ibis 1909 p. 28.

MUSCICAPIDAE.

Alseonax latirostris, first recorded British example killed in Kent, NICOLL Bull. Brit. Ornith. Cl. 23 p. 93; also Brit. Birds 3 p. 112.

Bradornis sylvia sp. n., Rio Campo, Kamerun, Reichenow Ornith. Monatsber. Berlin 17 p. 42.

Muscicapa somaliensis sp. n., N. Somaliland, BANNERMAN Bull. Brit. Ornith. Cl. 25 p. 20.

Poedilorhynchus stuhlmanni camerunesis, nest and eggs, Bates Ibis 1909 p. 30.—P. brevirostris, sp. n. Cameroon, Bates Bull. Brit. Ornith. Cl. 25 p. 28.

[Hydymela] Muscicapa atricapilla semitorquata, first record from Egypt, Nicoll Ibis 1909 p. 473; correction of mistake, Bull. B.O.C. 25 p. 28 and Ibis 1909 p. 714.—M. collaris, first record from Egypt, Nicoll Bull. Brit. Ornith. Cl. 23 p. 93.

[Siphia] Muscicapa parva, occurrence at Butt of Lewis, Scotland, CLYNE Ann. Scot. Nat. Hist.—1909 p. 48; Boitrag zur Verbreitung, Emmrich Ornith. Monatschr. 34 p. 307; in Südbayern, Parrot München Verhornith. Ges. 9 p. 226; Brutgeschäft, Bau Zs. Oologie 18 pp. 153-154; Dobbrick t.c. p. 163; first record from Egypt, Nicoll Ibis 1909 p. 473.

Cyornis tickelliae glaucicomans subsp. n., China, Thayer and Bangs Cambridge Mass. Bull. Mus. Comp. Zool. 52 p. 140.—C. peninsularis sp. n. Perak, Malay Peninsula, Robinson J. Fed. Malay Mus. 2 p. 163.

[Digenea] Cyornis leucomelanurus, in Tirhut, Inglis Bombay J. Nat. Hist. Soc. 19 p. 259.

Niltava lychnis sp. n., China, Thayer and Bangs Cambridge Mass. Bull. Mus. Comp. Zool. 52 p. 141.

Petroeca phoenicea habits and migratory movement, CAMPBELL Emu 8 pp. 122-130.

Poliomyias, Gattungsmerkmale, Buturlin Naša ochota 3 11 pp. 87-88.

e 17-2

Gerygone modiglionii jacobsoni subsp. n., Java, Oort Leiden Notes Mus. Jentink 31 p. 209.

[Pseudogerygone] Gerygone personata nest associated with that of a wasp, North Rec. Austr. Mus. 6 p. 186.—P. cantator sp. n. Moreton Bay, Queensland, Weatherill Queensl. Nat. 1 1908 p. 74; also Emu 9 p. 26.

Cyanoptila cumatilis sp. n., China, THAYER and BANGS Cambridge Mass. Bull. Mus. Comp. Zool. 52 p. 141.

Lioptilus rufocinctus, figured, HARTERT Nov. Zool. 16 p. 334 pl. 15 fig. 3,

Polioptila coerulea, in Washington Co. N.Y., Weber Auk 26 pp. 82 83.—P. dumicola, egg figured, Hartert & Venturi Nov. Zool. 16 p. 163.

Parisoma holospodium, sp. n., Cameroon, BATES Bull. Brit. Ornith. Cl. 25 p. 25.

Batis sheppardi, sp. n. Portuguese S.E. Africa, Haagner Ann. Transvaal Mus. 1 1909 p. 179.

Diaphorophyia graueri, figured, HARTERT Nov. Zool. 16 p. 334 pl. 15 figs. 1-2.

Smithornis camerunensis and S. zenkeri, habits, nest and eggs, BATES Ibis 1909 p. 31.

Trochocercus vivax sp. n. Katanga, Congoland, NEAVE Ann. Mag. N. H. (8) 4 1909 p. 129.

Rhipidura flabellifera, nesting habits, SMITH Trans. N. Zcal. Inst. 41 pp. 1-4—R. albolimbata lorentzi subsp. n., Hellwig Mts. New Guinea, OORT Nova Guinea IX. p. 85 Leide 1909.—R. tricolor, occurrence in Melbourne Botanical Gardens, SETH SMITH Avicult. Mag. 7 1909 p. 214.

Terpsiphone paradisi, general habits, Dewar Avicult. Mag. 7 1909 p. 260.— Tchitrea viridis & T. rufo-cinerea, nest and eggs, Bates Ibis 1909 pp. 32-33.

Elminia longicauda, eggs in Kamerun, Bates Ibis 1909 p. 32.

Rhinomyias ruficauda mindanensis subsp. n. Pantar, Mindanao, Philippines, Mearns Proc. U.S. Nat. Mus. 36 p. 439.

Myiagra sp. ind. an M. nitida Gould, description of \$\mathbb{Q}\$, OORT Nova Guinea ix p. 86 Leide 1909.

Machaerirhynchus nigripectus harterti subsp. n. New Guinea, OORT Leiden Notes Mus. Jentink 30 p. 235.

Cryptolopha minulla (Rehw.), a correction, Reighenow Ornith. Monatsber. 17 p. 24.—C. camerunensis, sp. n., Peak of Cameroon, Ochlyie-Grant Bull. Brit. Ornith. Cl. 25 p. 13.—C. malindangensis, sp. n. Malindang mt., Mindanao, Philippines, Mearns Proc. U.S. Nat. Mus. 36 p. 440.

Arses telescophthalmus harterti, subsp. n., southern New Guinea, OORT Nova Guinea ix p. 86 Leide 1909.

Stoparola melanops, habits in the Himalayas with coloured plate, HARPER Avicult. Mag. 7 1909 p. 277.

Sheppardia gen. n. formed for Sheppardia gunningi sp. n. nr. Beira, Portuguese S.E. Africa, HAAGNER Ann. Transvaal Mus. 1 1909 p. 180.

Pseudocalyptomena gen. n. of uncertain affinities, probably an aberrant Flycatcher (Muscicapidae) but with resemblances to Calyptolema (Euryluemidae) formed for reception of the single new species—P. graueri, from near Russisi, north of Lake Tanganyika, Rothschild Ibis 1909 p. 590 pl. x.

CAMPOPHAGIDAE.

Grancalus melanops, feeding habits near Melbourne, Cole Emu 8 p. 154.

Lobotus oriolinus, sp. n., Cameroons Bates Bull. Brit. Ornith. Cl. 25 p. 14.

PYCNONOTIDAE.

Chloropsis flavipennis, in Mindanao P.I. McGregor Philippine J. Sci. 4 p. 74.

Criniger sylvicultor sp. n., Katanga, Congoland, NEAVE Ann. Mag. N. H. (8) 4 1909 p. 130.

[Bleda] Phyllostrephus clamans, P. viridescentior, P. simplex, P. flavigula & P. orientalis, systematic position, habits, nests and eggs, BATES Ibis 1909 p. 55.

[Eurillas] Andropadus virens and A. efulensis, habits, nest and eggs, BATES Ibis 1909 p. 58.

Molpestes intermedius & M. leucogenys, supposed hybrids in Kohat, WHITEHEAD Ibis 1909 p. 111.—M. magrathi, M. intermedius, and M. intermedius × leucogenys, hybrids discussed and figured, Sharpe Ibis 1909 p. 302.

Pycnonotus goiavier sulucnsis subsp.
n. Sulu Isle, Philippines, Mearns Proc.
U.S. Nat. Mus. 36 p. 470.—P. gabonensis, nest and eggs, Bates Ibis 1909
p. 60.

Rubigula dispar, from Java, habits in captivity, Phillipps Avicult. Mag. 7 p. 215.

TIMELIIDAE.

Orthonyx temminckii victoriana subsp. n. New Guinea, Oort Leiden Notes Mus. Jentink 30 p. 234.

Cinclosoma marginatum, female, nest and eggs, North Sydney Rec. Austr. Mus. 6 p. 322 fig.

Pycnoptilus floccosus, its domestic economy, Howe Emu 9 p. 41.

[Trochalopterum] Ianthocincla affinis oustaleti, subsp. n. Yunnan, I. rufogularis assamensis, subsp. n. Assam, I. r. occidentalis, subsp. n. N.W. Himalaya, I. lineatum grisecention, subsp. n. N.W. Himalaya, I. l. gilgit, subsp. n. Gilgit, Kaschmir, HARTERT Vögel paläarkt. Fauna H 5 pp. 633-636.

[Argya] Crateropus caudatus altirostris subsp. n., Fao, Persian Gulf, Hartert Vögel paläarkt. Fauna H 5 p. 623.

Crateropus striatus, habits in Ceylon, Julius Spolia Zeylan. Columbo 6 p. 131.

Calamanthus howei, subsp. n., Victoria, Australia, Mathews Bull. Brit. Ornith. Cl. 25 p. 24.

Pseudotharrhaleus malindangensis sp. n. Malindang mt., Mindanao, Philippines, Mearns Proc. U.S. Nat. Mus. 36 p. 441.

Graveria vittata, figured with note on structural characters and systematic position, HARTERT Nov. Zool. 16 p. 334 pl. 14 fig. 2.

Alcippe harringtoniae sp. n. Upper Burma, HARTERT Bull. Brit. Ornith. Cl. 25 p. 10.

Myiophoneus temmincki, kann man den Turkestanischen als typische Form ausehen, SARUDNY Ornith. Monatsber. 17 pp. 166-168.

Brachypteryx malindangensis sp. n. Malindang mt., Mindanao, Philippines, MEARNS Proc. U. S. Nat. Mus. 36 p. 441.

TROGLODYTIDAE.

Thryothorus ludovicianus, in Rhode Island, Cole Auk 26 p. 81; at Falmouth Me., Brewer t.c. p. 82; at New Haven, Conn., Pangburn t.c. p. 195; invasion of New England, Townsend t.c. pp. 263-269; in Washington co. Mich. Tinker t.c. p. 434.

Thryomanes bewicki cryptus, probably not in Colorado, Warren Auk 26 p. 311; Cary t.c. p. 312.

Cistothorus stellaris, captured on Long Island, N.Y., Weber Auk 26 p. 82; new record for Colorado Cary t.c. p. 184.—C. platensis tucumanus subsp. n., Tucuman, Argent. Repub. HARTERT & VENTURI Nov. Zool. 16 p. 163.—C. platensis platensis, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 163.

Troglodytes cobbi sp. n., Falkland Isles, Chubb Bull. Brit. Ornith. Cl. 25 p. 15.

[Anorthura] Troglodytes parvulus, breeding habits in Cyprus and discussion of subspecific differentiation, BUOKNILL Ibis 1909 p. 605.—T. talyshensis But. = T. parvulus hyrcanus Zar. et Lond., ZARUDNY Naša ochota 3 12 p. 122.

Catherpes mexicanus conspersus, record for Brit. Columbia, BROOKS Auk 26 p. 314.

Microcerculus philomela, M. daulias, and M. luscinia, probably indistinguishable, BANGS Washington Proc. Biol. Soc. 22 p. 34.

Pnoöpyga albiventris formosana, subsp. n., Central Formosa, INGRAM Bull. Brit. Ornith. Cl. 23 p. 96.

CINCLIDAE.

Cinclus aquaticus, zur Wasseramsclfrage, Hennicke Ornith. Monatschr. 34 p. 271 Taf.; Wurm t.c. p. 304.—C. melanogaster note on occurrence and sub-specific differentiation in Cyprus Bucknill. Ibis 1909 p. 586.—C. leucogaster triznae subsp. n., Turkestan, Sarudny Ornith. Monatsber. 17 p. 180.—C. tenuirostris korrejewi

subsp. n. Semiretschje-Gebiets, Turkestan, Sarudny Ornith. Monatsber. 17 p. 19.—C. biedermanni sp. n., Altai, Reichenow Ornith. Monatsber. 17 p. 41.

MINIDAE.

Mimus polyglottos, breeding near Boston, Allen Auk 26 p. 433.

Toxostoma palmeri, T. bendirei, T. lecontei and T. crissale, habits in Arizona, Gilman Condor 11 pp. 49-54.

TURDIDAE.

Verzeichnis der südbrasilianischen Arten, WERNER Wien Mitt. Oest. RchsBd. Vogelk. 9 pp. 113-116 122-124.

Ueber die Drosseln Brandenburgs, Hocke Gefied. Welt 38 pp. 196-197 204-208.

Platycichla venezuelensis atra, subsp. n. Margarita Island, Venezuela, Corv Field Mus. Publ. Ornith. 1 p. 251.

Myiadestes sibilans, danger of extinction in St. Vincent W.I., Lowe Ibis 1909 p. 308.—M. townsendi, habits in captivity, ASTLEY Avicult. Mag. 7 p. 319.

Phaeornis erithra sp. n. Molokai, Hawaian Islands, Bryan Occ. Paprs. Bernice Pauahi Bishop Mus. 4 p. 43.

[Merula] Turdus merula, mating with T. musicus, Berry Glasgow Nat. 1 p. 35; sind sie nutzlich oder schädlich? Otto Zool. Beob. 50 pp. 110–112; Eier, Goebel Zs. Oologie 18 pp. 195–196; Masse und Gewichte der Eier, Poussar Zs. Oologie 19 pp. 132–136; vier Bruten, Begs Zs. Oologie 19 p. 94; Unterscheidung von Zugund Standvögeln, Kleinschmidt Falco 5 pp. 12–13.—T. vernus [i.e., merula] hispaniae subsp. n., Malaga, Kleinschmidt t.c. p. 22.—Planesticus fumigatus aquilonalis subsp. n. Aripo, Trinidad, Cherrie Bul. Mus. Brooklyn 1 1909 p. 387.—Turdus cardis lateus subsp. n., China, Thayer and Bangs Cambridge Mass. Bull. Mys. Comp. Zool. 52 p. 140.—T. pelios saturatus, nest and eggs, Bates Ibis 1909 p. 73.

[Semimerula] Turdus fuscater amoenus, eggs figured, Hartert & Venturi Nov. Zool. 16 p. 162.

Geocichia wardi, at Dimbula, Ceylon, RYAN Spol. Zevlan. 5 p. 109.

[Oreocichla] Turdus varius, new to the Danish fauna, ROSENKRANTZ, København Ornith. Tids. 3 p. 113.

Turdus viscivorus, on the subspecific races, Kleinschmidt Falco 5 pp. 15-16; T. arboreus pseudohodgsoni subsp. n. Taschkent, Kleinschmidt t.c. p. 20.— Turdus pilaris, occurrence in Co. Down in summer, LANGTRY Irish Nat. 18 p. 207; ueber das Brüten in Bayern, Besserer D. Jäger Munchen 31 p. 298; Masse und Gcwichte der Eier, Pousar Zs. Oologie 19 pp. 132-136; Wintermassenflug im Gouv. Charkov, AVERIN Sborn. stud. Kruž. liub. pris. Chark. Univ. 1 pp. 74-76.—T. atrigularis, 3rd record for Great Britain, PARKIN Brit. Birds London 2 p. 378; example killed in Kent exhibited, PAR-KIN Bull. Brit. Ornith. Cl. 23 p. 57.— Merula fuscata and M. naumanni, their specific distinctions, Dubois Rev. Fr. d'Orn. 1 p. 33.—T. alpestris, first noted from Cyprus, Bucknill Ibis 1909 p. 584.—T. migratorius, habits in captivity and in a wild state, ASTLEY Avicult. Mag. 7 pp. 99-108; Merula migratoria, a continuous series of albinos observed through several years, Bergtold Auk 26 pp. 196-198.— Planesticus migratorius caurinus subsp. n. Alaska, Grinnell Berkeley Univ. Cal. Pub. Zool. 5 pp. 241-243.

Hylocichla aliciae bicknelli, in Cumberland co. Me. Norton Auk 26 p. 312; a spring record on Long Island, N.Y., CHERRIE t.c. p. 196.—H. guttata pallasi, a colony on Long Island, N.Y., DAVIS Auk 26 p. 435.—Turdus pallasi, T. fuscescens, and T. mustelinus, habits in captivity and in a wild state, ASTLEY Avicult. Mag. 7 pp. 99-108 177-183 pl.—T. iliacus, song, STUBBS Lancs. Nat 2 p. 39; Masse und Gewichte der Eier, Pousar Zs. Oologie 19 pp. 132-136; paucity in the West Riding of Yorkshire, BOOTH Naturalist London 1909 p. 78; first noted from Cyprus, BUCKNILL Ibis 1909 p. 584; first record from Egypt, NICOLL Ibis 1909 p. 286. -T. musicus, dimorphism in the eggs, PATTEN Naturalist London p. 275.—T. philomelos clarkei subsp. n. England, for the resident British race of the Song-Thrush, HARTERT Bull. Brit. Ornith. Cl. 23 p. 54.

Monticola saxatilis, breeding habits and moult in captivity, Phillipps Avicult. Mag. 7 pp. 279-286 311-319.

Accentor collaris, first Scottish example taken on Fair Isle, CLARKE Ann. Scot. Nat. Hist. 1909 p. 73.—A. rufilatus, nest and eggs in N.W. India, WHITEHEAD Ibis 1909 p. 224.

Tharrhaleus jerdoni, nesting in captivity, Teschemaker Avicult. Mag. 7 p. 359.—T. tetricus sp. n. Mongolia, Madarász Ann. Hist.-Nat. Mus. Nat. Hung. 7 pp. 175-176 Plate iv fig. 1.

[Phoenicurus] Ruticilla phoenicurus, a rare breeder in Sussex, Walpole-Bond Brit. Birds 3 p. 26; Monck t.c. p. 56.—R. titys, in the Tay Area, Scotland, Rintoul and Baxter Ann. Scot. Nat. Hist. 1909 p. 49; weitere Beiträge zum Vorkommen in Krain, Ponebser Falco 5 pp. 37-42.

Cyanecula suecica leucocyanea, critical note on this subspecies, Dresser Ibis 1909 p. 561.—Erithacus cyaneculus, in Lübecks Umgebung, HAGEN Ornith. Monatschr. 34 pp. 432-434; E. cyaneculus und E. suecicus in Brandenburg, Werner Zs. Oologie 19 pp. 45 56.

Aëdon luscinia, im Freien und als Stubenvogel, Lindder Gefied. Welt 38 pp. 6 12 21 29 36; Daulias luscinia, nesting on the borders of Staffordshire and Shropshire, Dungalfe Zoologist 13 p. 28; Forrest t.c. p. 74; Masefield t.c. p. 75.—Erithacus luscinia u. philomela, ornithologische Beobachtungen aus der Umgegend von Posen, Hammling Ornith. Monatsber. 17 pp. 129-138.

Erithacus rubecula ethology, Lie-Pettersen Bergen Naturen 33 pp. 114-123; note sur le nid, Paris Paris Bul. soc. zool. 33 1909 p. 148; Aberration, Kleinschmidt Faico 5 pp. 5-6.

Calliope camtschatkensis, in Tirhut, Inglis Bombay J. Nat. Hist. Soc. 19 p. 259.

[Ianthia] Tarsiger indicus formosanus subsp. n. Central Formosa, HARTERT Bull. Brit. Ornith. Cl. 25 p. 32.

Xenocopsychus ansorgei, figured with note on its systematic position and generic characters, HARTERT Nov. Zool. 16 p. 333 pl. 14 fig. 1.

Cossypha heuglini occidentalis subsp. n. Tanganjika, Reichenow J. Ornith. 57 p. 108.—C. haagneri sp. n. Pondoland, S. Africa, Gunning Ann. Transvaal Mus. 1 p. 174.

Alethe akcleyae sp. n. Mt. Kenya, British East Africa, Dearborn Field Mus. Publ. Ornith. 1 p. 170.

[Cercomela] Myrmecocichla melanura, first record from Egypt, Nicoll Ibis 1909 p. 290.

Saxicola ocnanthe, nesting in burrows on a stack off the west coast of Ireland, Ussher Irish Nat. 18 p. 159.—S. oenanthe argentea subsp. n. Bura, Transbuicalia, Lönnberg Ark. Zool. 5 No. 9 p. 22 u. Bamberg Zs. Oologie 19 p. 101.—S. leucorrhoa, first record in Italy, Giglioli Nature 80 p. 188; its migratory movements through the British Isles, TICEHURST Brit. Birds 2 p. 271.—S. aurita and melanoleuca, in Südungarn, LINTIA Délmagy. Termt. Füz. 33 pp. 196-198.—S. capistrala, nest and eggs in the Kurram valley, WHITEHEAD Ibis 1909 p. 217 .- S. monticola, colour-phases and notes on breeding, BUTLER Avicult. Mag. 7 p. 131.—S. halophila, first record from Egypt, NICOLI. Bull. Brit. Ornith. Cl. 23 p. 100.—S. leucurus riggenbachi subsp. n. Rio de Oro, Nord-Africa, HARTERT Falco 5 p. 36 .- S. deserti, first example from Norfolk, GURNEY & SOUTHWELL Norwich Trans. Nat. Soc. 8 p. 847.—S. melanoleuca and S. leucopygia, notes on near Port Sudan, BUTLER Ibis 1909 p 398.—S. stapazina, auf Helgoland erlegt! WEIGOLD Ornith. Monatsber. 17 p. 113.

Catharus mexicanus smithi subsp. n. Tamaulipas, Mexico, Nelson Washington Proc. Biol. Soc. 22 pp. 49-50.

Sialia sialis, occurring at Tadousac, Quebec, DWIGHT Auk 26 p. 83.

SYLVIIDAE.

List of species in Switzerland, Fatio et Studer, Cat. Ois. de la Suisse, Genève, pts. 5 6.

[Agrobates] Aëdon familiaris, nest and eggs at Kohat, WHITEHEAD Ibis 1909 p. 117.—Aë. familiaris transcaspica nom. nov. pro Aë. familiaris deserticola, BUTURLIN Naša ochota 1909 2 p. 58.

Locustella luscinioides, first Scottish example taken on Fair Isle, CLARKE

Ann. Seot. Nat. Hist. 1909 p. 73.— L. luscinioides fusca, first record from Egypt, Nicoll & Bonhote Bull. Brit. Ornith. Cl. 23 p. 102.—L. certhiola, new to British Avifauna, pieked up dcad at Roekabill Light-house, Ireland, Barrington Dublin Sei. Proc. R. Soc. 12 p. 18; notes on plumage of Manchurian examples, Ingram Ibis 1909 p. 430.—L. naevia, Zuehtversueh, Hein-Roth Gefied. Welt 38 pp. 313 321 329 337; Hocke t.c. pp. 265-266.

Acrocephalus palustris, breeding in Worcestershire, COBURN Brit. Birds 3 p. 157; in Kent, ALEXANDER t.c. p. 159.—A. streperus, new to Ireland's fauna, killed at Roekabill Lighthousc, BARRINGTON Dublin Sei. Proc. R. Soc. 12 p. 19.

Heliolais kirbyi, sp. n. Boror, Portuguese E. Africa, HAAGNER Ann. Transvaal Mus. 1 p. 233.

Cisticola, revision of the South African species, HAAGNER Ann. Transvaal Mus. 1 1909 p. 227; C. pretoriae, sp. n. Pretoria, HAAGNER t.c. p. 230.—C. erythrops, habits, nest and eggs, BATES Ibis 1909 p. 67.—Hemipteryx minuta, sp. n. Zoutspansberg, Transvaal, Gunning Ann. Transvaal Mus. 1 p. 174.—C. cinnamomeiceps, sp. nov. S. Africa, HAAGNER Ann. Transvaal Mus. 1 1909 p. 197.—C. carruthersi sp. n., Ruwenzori, C. Africa, Ogilvie-Grant Bull. Brit. Ornith. Cl. 23 p. 94.—C. zedlitzi sp. n., Erythraea, REICHENOW Ornith. Monatsber. Berlin 17 p. 42.

Laticilla burnesi, nesting in the Punjab, Currie Bombay J. Nat. Hist. Soc. 19 p. 258.

Bradypterus camerunensis sp. n., Peak of Cameroon, Alexander Bull. Brit. Ornith. Cl. 25 p. 19.—B. msiri sp. n., Katanga, Congoland, Neave Bull. Brit. Ornith. Cl. 25 p. 25.—B. pondoensis sp. n. Pondoland, S. Afric., HAAGNER J. S. Afric. Ornith. Union 5 p. 90.

Calamonastes katangae sp. n., Katanga, Congoland, NEAVE Ann. Mag. N. H. (8) 4 p. 130.

Hypolaïs hypolaïs, ethology LIE-PETTERSEN Bergen Naturen 33 pp. 147-154.

Sylvia cinerea, life history with coloured plate and photogravures,

HOWARD British Warblers pt. 4 1909; in South Africa, CHUBB Ibis 1909 p. 158 .- S. simplex, eine späte Brut, HENNEMANN Ornith. Monatschr. 34 p. 441.—S. hortensis, S. atricapilla and S. nisoria, abundance during migration near Port Sudan, BUILER Ibis 1909 pp. 396-397; S. curruca, life history with coloured plate and photogravure, Howard British Warblers pt. 4 1909.—8. atricapilla, life history with coloured plate and photogravures, Howard British Warblers pt. 3 1909; winter habits and mating for life, Lowe Brit. Birds 3 p. 79; im winter zuweilen im sudlichen Norwegen, Iverson Gefied. Welt 38 p. 7.-S. subalpina, second British example occurs in Fair Isle. CLARKE Ann. Scot. Nat. Hist. 1909 p. 72.

Melizophilus undatus, avicultural notes, Silver Avicult. Mag. 1 p. 30; Sylvia undata toni subsp. n., Biskra, Algeria, Hartert Vögel palaarkt. Fauna H. 5 p. 602.—S. undata dartfordiensis, Latham's name reviver for the British and north-western French subspecies, Hartert Vögel palaarkt. Fauna H. 5 p. 601.

[Herbivocula] Lusciniola schwarzi, life history and coloured plate, Howard British Warblers pt. 3 1909; in Kreis Krasnajarsk, Tugarinov Naša ochota 3 11 p. 97.

Phylloscopus sibilatria, wintering in Cornwall, Farn Zoologist 13 p. 28; curious nesting site, Medlicott Brit. Birds 2 p. 380; Lebensweise, Werner Zs. Oologie 19 pp. 87-90.—P. sibilatria erlangeri, nom. nov. for P. s. flavescens, Hartert Vögel palaarkt. Fauna H. 5 p. 516.—P. fitis, Zug im Mansfelder Seekreis, Kleinschmidt Faleo 5 pp. 44-46.—P. trochilus eversmanni, occurs regularly on migration in Norfolk, Borrer Bull. Brit. Ornith. Cl. 23 p. 58; also Borrer & Witherby Brit. Birds 2 p. 342; Vorkommen, Leege Ornith. Monatschr. 34 pp. 371-372.—P. bonelli, habits in Switzerland, Fowler Zoologist 13 p. 241.—P. tristis, life history with coloured plate, Howard British Warblers pt. 4 1909.

[Reguloides] Phylloscopus proregulus, life history with coloured plate, HOWARD British Warblers pt. 3 1909.

—P. subviridis, nest and eggs in

Kohat, India, WHITEHEAD Ibis 1909 p. 124.—P. superciliosus, in Dumfriesshire, in spring, Stout Ann. Scot. Nat. Hist. 1909 p. 182.

[Acanthopneuste] Phylloscopus borealis, occurrence at Fair Isle, an addition to the British Fauna, Clarke Ann. Scot. Nat. Hist. 1909 pp. 1, 114; also Brit. Birds 2 1909 p. 310.—P. viridanus, life history and coloured plate, Howard British Warblers pt. 4 1909; im Gouv. Kiev, Nestbau, Eier, Gefieder, Artobolewski Kiev Zap. Obšč. jest. 21 pp. 213–223 + deutsch. Res. pp. 224–227; im Krasnojarsk, Tugarinov, Naša ochota 3 11 p. 96.

Acanthiza australis North, must be recognized as valid, Mathews Bull. Brit. Ornith. Cl. 25 p. 34.—A. leighi sp. n., Lithgow, New South Wales, Ochvie-Grant Bull. Brit. Ornith. Cl. 23 p. 73.—A. whitlocki sp. n., Lake Way, W. Australia, North Vict. Nat. 25 p. 55.

Sericornis arfakiana nouhuysi subsp.
n. New Guinea, Oort Nova Guinea
pt. 9 p. 90 Leide 1909.—S. balstoni
sp. n. Bernier Isle, Western Australia,
OGILVIE-GRANT Bull. Brit. Ornith. (1.
23 p. 72; figured, Ibis 1909 p. 677 pl. 9
fig. 1.

Dryodromas pearsoni sp. n., Katanga, Congoland, Neave Ann. Mag. N. H. (8) 4 p. 130.

Sylviella batesi, nest and eggs, BATES Ibis 1909 p. 72.

Parmoptila woodhousii, nest and eggs, coloured plate, colour of inside of mouth, Bates Ibis 1909 pp. 67 383 pl. 2.

Scotocerca inquieta, note on nomenclature and coloured plate, NICOLL Ibis 1909 p. 296 pl. 4.

[Neornis] Horeites flavolivacea intricatus subsp. n., China, Hartert Vögel palaarkt. Fauna H. 5 p. 533.

[Burnesia] Prinia bairdi, habits, nest and eggs, BATES Ibis 1909 p. 69. —P. gracilis yemenensis subsp. n., Aden, HARTERT Vögel paläarkt Fauna H. 5 p. 609.

Malurus cyaneus, nesting in Ivy, Burrell Emu 9 p. 34 pl. 2.—M. dulcis sp. n. South Alligator River, N. Australia, Mathews Emu 8 p. 113 pl. B. —M. bernieri, sp. n. Bernier Isle, Western Australia, OGILVIE-GRANT Bull. Brit. Ornith. Cl. 23 p. 72; figured Ibis 1909 p. 676 pl. 9 fig. 2.—M. lorentzi sp. n., New Guinea, OGRT Nova Guinea pt. 9 p. 91 Leide 1909.

Amytornis striatus whitei subsp. n., N.W. Australia, Mathews Bull. Brit. Ornith. Cl. 25 p. 34.—Amytis varia Carter, perhaps identical with A. macrura, Carter Vict. Nat. 26 p. 95.

VIREONIDAE.

The migration of Vireos, COOKE Bird-Lore 11 pp. 78-82 118-120.

Pachysylvia muscicapina griseifrons subsp. n., Rio Tapajoz, Brazil, SNETHLAGE Bol. Mus. Goeldi Para 5 p. 447.

Cyclorhis viridis viridis, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 167.

AMPELIDAE.

Ampelis garrulus, general notes on habits with coloured plates of birds and egg, St. Quintin Avicult. Mag. 7 p. 115; colour of the nestling's mouth, Pycraft Brit. Birds 3 p. 121; Südzug im winter 1903–1904, Dant Ornith. Beob. Berne 3 1904 pp. 36-38; occurrence at Bannu N.W. India, most southern record, Whitehead in the subject of the Slave river, canada, Anderson Auk 26 pp. 10-12.

Phainopepla nitens, habits in California, Myers Condor 11 p. 22.

ARTAMIDAE.

Artamus superciliosus, a honey-eater, Chisholm Emu 8 p. 219, 9 p. 23.—
A. sordidus, mustering for migration in Tasmania, Dove Nature Notes 20 p. 127.—A. tenebrosus, clustering at the roosting place, Dove Emu 9 p. 30.

PRIONOPIDAE.

Grallina picata, note on habits near Melbourne, SETH-SMITH Avicult. Mag. 7 pp. 161 213 fig.

Fraseria ocreata, habits and song, BATES Ibis 1909 p. 29.

[Rhectes] Pitohui aruensis nigripectus, subsp. n. et P. incertus sp. n. New Guinea, OORT Nova Guinea pt. 9 pp. 93-4 Leide 1909.

LANIIDAE.

Gymnorhina leuconota, nesting and other habits in S.E. Australia, Hall Emu 9 pp. 16-21.—G. longirostris, description of eggs, Campbell Emu 8 p. 143.

Strepera graculina, eggs and nesting habits, Campbell Emu 8 p. 145.

Lanius excubitor und L. minor, Bestimmungstabelle für Eier, Goebel Zs. Oologie 19 pp. 1-4 19-21.—L. meridionalis, Vorkommen in Harz, Schalow J. Ornith. 57 pp. 229 236; in Deutschland, Kollibay Ornith. Monatschr. 34 p. 278.

Phoneus pomeranis, nest in Oxfordshire, Lawson Oxford Rep. Ashmol. Nat. Hist. Soc. 1908 p. 51.

[Fiscus] Lanius collaris, Variabilitat in Russisch-Asien, BUTURLIN Naša ochota 1909 2 pp. 60-64.

[Enneoctonus] Lanius collurio, nutzen, TOEPEL Ornith. Monatschr. 34 p 306. —L. collurio velizhanini subsp. n. Semipalatinsk, BUTURLIN Naša ochota 1909 2 p. 64.

[Chlorophoneus] Laniarius graueri and L. rubiginosus rudolfi, sexes alike in plumage, Hartert Nov. Zool. 16 p. 335.

Nicator chloris, nest and eggs, BATES Ibis 1909 p 34.—N. chloris laemocyclus subsp. n. Beni, W. Africa, REICHENOW J. Ornth. 57 p. 108.

Pomatorhynchus australis frater, habits, nest and eggs, Bates Ibis 1909 p. 33.—Harpolestes australis ansorger subsp. n.. North Angola, Neumann Bull. Brit. Ornith. Cl. 23 p. 53.

Pachycephalus lanioides, nesting and other habits in N.W. Australia, CAMPBELL Emu 8 p. 143; nest and eggs, JAOKSON Emu 9 p. 106 pl. 7.

Hyloterpe apoensis basilanica subsp. n. Basilan, Philippines, Mearns Proc. U.S. Nat. Mus. 36 p. 442.

Eopsaltria jacksoni sp. n. Herberton range N.S.W., Le Souër Emu 9 p. 70 pl. 3.

PARIDAE.

[Poecile] Parus borerlis, a new British bird, OGILVIE-GRANT Brit. Birds 2 p. 277; Brutplätze in Ostpreussen, Tischler Falco 5 pp. 22-23.

—P. rufescens, nesting and other habits, in Washington State, Bowles Condor 11 p. 55.—P. tunkanensis sp. n. Mongolia, Madarász Ann. Hist. Nat. Mus. Nat. Hung. 7 p. 177.

[Periparus] Parus britannicus, breeding in the Wilsden district, Yorkshire, BUTTERFIELD Zoologist 13 p. 75.

Parus, enumeration of species occurring in Switzerland, Burg Verh. Schweiz. Natf. Ges. 90 p. 72.—P. major, breeding habits, SIDDALL Brit. Birds 3 p. 186.—P. major artatus subsp. n. China, Thayer and Bangs Cambridge Mass. Bull. Mus. Comp. Zool. 52 p. 140.

[Pentheres] Parus fasciiventer tanganjicae subsp. n. Tanganjika, REIGHE-NOW Ornith. Monatsber. Berlin 17 p. 42.

Cyanistes pleskei, Nistvogel in Südrussland, Artobolewski Ornith. Jahrb. 20 pp. 77-78.

Aegithaliscus leucogenys, nest and eggs in the Kurram valley, WHITEHEAD Ibis 1909 p. 107.

Aegithalus caudatus, its changing distribution in the West Riding of Yorkshire, BOOTH Naturalist London 1909 p. 55.

Anthoscopus ssaposhnikowi sp. n. Balchasch, Central Asien, Johansen Tomsk Izv. Univ. 22 pp. 10-12 pl. i.—A. robertsi, sp. n. Boror, Portuguese E. Afriea, HAAGNER Ann. Transvaal Mus. 1 p. 233.

REGULIDAE.

List of the species in Switzerland, FATIO et STUDER, Cat. Ois. de la Suisse. Genève, pt. 5.

Regulus cristatus, nidification dans le Gard, S. France, Hugues Nimes Bul. soc. étud. sci. nat. 34 1907 p. 19.—R. regulus und R. ignicapillus, in Brandenburg, Werner Zs. Oologie 19 p. 57.

SITTIDAE.

Sitta bedfordi, sp. nov. Quelpart Isle, S. Corea, OGILVIE-GRANT Bull. Brit. Ornith. Cl. 23 p. 59.

CERTHIIDAE.

Certhia familiaris, artificial preservation in Denmark, KLINGE Ornith. Tids. 3 p. 149.—C. familiaris americana, nesting near St. Louis, Betts Auk 26 p. 434.—C. talyshensis But.—C. familiaris persica Zar. et Lond., Zarudny Naša ochota 3 12 p. 123.

Salpornis riggenbachi sp. n. Kamerun, Reichenow Ornith. Monatsber. 17 p. 140.

Tichodroma muraria, taken in Illeet-Vilaine, France, Bezier Rennes Bul. soe. sci. mód. 17 p. 86; Picque NARD op. cit. 18 p. 104; in Abruzzo, Leone Boll. Soe. zool. ital. 2 10 p. 128.

Climacteris erythrops, a resident in S.E. Vietoria, Chandler Emu 9 p. 94. —Climacteris wellsi sp. n., Clifton Downs, West Australia, Ogilvie-Grant Ibis 1909 p. 664.

ZOSTEROPIDAE.

Zosterops arabs, from south Arabia, figured, LORENZ & HELLMAYR Wien Denkschr. Ak. Wiss. 71 p. 111 fig. 2. —Z. goodfellowi malindangensis subsp. n. Lebo mt., Mindanao, Philippines, MEARNS Proc. U.S. Nat. Mus. 36 p. 443. —Z. shortridgii and Z. balstoni spp. n. Rabbit Isle, Albany, and Carnarvon, W. Australia, Ogilvie-Grant Ibis 1909 p. 663—Z. usambarae sp. n. Usambara, Ostafrika, Reichenow Ornith. Monatsber. Berlin 17 p. 42.

DICÆIDAE.

Pardalotus, the species and their nesting habits, CAMPBELL Emu 9 pp. 22-23.—P. pallida sp. n. De Grey river dist. N.W. Australia, CAMPBELL Emu 8 p. 142.

NECTARINIDAE.

[Hedydipna] Nectarinia muelleri, from south Arabia, figured, LORENZ & HELLMAYR Wien Denkschr. Ak. Wiss. 71 p. 111 figs. 3 4.

Aethopyga seheriae owstoni subsp. n., Nauchau Isle, S. China, Rотнесніль Bull. Brit. Ornith. Cl. 25 p. 32.

[Leptocoma] Arachnechthra zeylonica, habits, Ryan Spolia Zeylan. Columbo 5 p. 110.

[Hermotimia] Cinnyris aspasia subsp. n.? New Guinea, BEAUFORT Nova Guinea Leide 5 p. 419.

Cinnyris chloropygius, habits, nest and eggs, Bates Ibis 1909 p. 64.

[Cyanomitra] Chalcomitra obscura, habits, nest and eggs, BATES Ibis 1909 p. 61.

Cyrtostomus jugularis mindanensis and C. j. woodi subspp. n. Zamboanga, Mindanao and "Three Islands," Sibutu Isle, Philippines, MEARNS Proc. U.S. Nat. Mus. 36 pp. 443-444.

Arachnothera magna, comparative osteology, Shuffldt Proc. Zool. Soc. 1909 p. 527.

Anthreptes reichenowi, sp. n. Portuguese East Africa, Gunning Ann. Transvaal Mus. 1 p. 173.

MELIPHAGIDAE.

Melithreptus chloropsis whitlocki subsp. n., Western Australia, Mathews Bull. Brit. Ornith. Cl. 25 p. 24.

Certhionyx occidentalis sp. n., Carnarvon, West Australia, OGILVIE-GRANT Ibis 1909 p. 658.

Ptilotis carteri, discussion of specific distinction, OGILVIE-GRANT Ibis 1909-p. 655.

[Ptiloprora] Ptilotis erythropleura lorentzi, subsp. n. New Guinea, OORT Nova Guinea pt. 9 p. 95 Leide 1909.

Entomiza cyanotis griseigularis subsp. n., New Guinea, Oort Nova Guinea pt. 9 p. 95 Leide 1909.

MNIOTILTIDAE.

Helmitherus vermivorus, nidification, Burns Wilson Bull. 21 p. 104.

Pronotaria citrea, on the coast of Maine, Brewster Auk 26 p. 309.

Vermivora pinus, nesting in Massaehusetts, Wright Auk 26 pp. 337-345. —V. luciae, nesting notes in Arizona, Gilman Condor 11 p. 166.

[Parula] Compsothlypis americana usneae, in Delaware, Miller Auk 26. p. 309.

Dendroica ruficapilla obscura subsp.
n., Los Roques, West Indies, Corv
Field Mus. Publ. Ornith. 1 p. 217.—
D. virens, a nesting species on Long
Island, N.Y., Abbott Auk 26 pp. 80.—
81.—D. striati, breeding at Great Slave
Lake, Anderson Auk 26 p. 80.—D.
discolor, occurring in northern Ontario,
Eifrig Ottawa Nat. 23 1909 p. 113;
also Auk 26 p. 432.—D. discolor and
D. vigorsi, in eastern Massachusetts in

winter, McKechnie Auk 26 p. 195.— D. flavescens, sp. n. Bahamas, Todd Washington Proc. Biol. Soc. 22 p. 171.

Sciurus motacilla, breeding in Berkshire co. Mass., Brewster Auk 26 p. 310; breeding in Philadelphia, Harlow t.c. p. 195.

Basileuterus bivittatus bivittatus, new to the Argentine, Hartert and Venturi Nov. Zool. 16 p. 167.

DREPANIDIDAE.

Drepanorhamphus funereus, status and efforts to obtain on Molokai (Hawaian Islands), Bryan Occ. Papers Bernice Pauahi Bishop Mus. 4 1908 p. 43.

MOTACILLIDAE.

Motacilla alba, migratory movements in Co. Dublin, WILLIAMS Irish Nat. 18 pp. 121-122.—M. boarula, als neuer Brutvogelin Schleswig-Holstein, Krohn Ornith. Monatschr. 34 pp. 301-303; auch Müller t.c. p. 143.—M. sulfurea, bei Jena, WESSNER Ornith. Monatschr. 34 p. 277.—M. citreola, first record from Egypt, NICOLL Ibis 1909 p. 300. -M. citreoloides, breeding in immature plumage, WHITEHEAD Ibis 1909 pp. 241, 621.—Budytes citreoloides iranica subsp. n., Persia, SARUDNY Ornith. Monatsber. 17 p. 20.-M. flava, note on the various subspecies on the Red Sea Coast, BUTLER Ibis 1909 p. 391.—M. flava raddei subsp. n., Transcaspia, Härms Ornith. Monatsber. 17 p. 2.

Anthus, on the species found near Lubeck, N. Germany, Hagen Güstrow Arch. Ver. Natg. 63 p. 112; records of the rarer species occurring near Hastings, Sussex, NICOLL Hastings and E. Sussex Nat. 1 1909 p. 181.—A. trivialis, eggs and their variation, BUNYARD Brit. Birds 2 p. 335; Flug und Gesang, GROBBELS Ornith. Monatsbor. 17 pp. 114-117.—A. pratensis, im Untermaingebiet, BOETTGER Zool. Beob. 50 p. 311.—A. pratensis enigmaticus subsp. n. russischen Turkestan, SARUDNY Ornith. Monatsber. 17 p. 56. —A. cervinus, the first undoubted British example, NICOLL & TICEHURST Brit. Birds 2 p. 278; from Fair Isle, not previously recorded from Scotland, CLARKE Ann. Scot. Nat. Hist. 1909 p. 72.—A. bertheloti, in Italy, GIGLIOLI Nature 80 p. 188 .- A. spinoletta blakistoni, first record from Egypt, WITHERBY Bull. Brit. Ornith. Cl. 23 p. 97.—A. japonicus härmsi subsp. n. Taschkent, A. maculatus berezowskii subsp. n. S.W. Gansu, Sarudny Ornith. Monatsber. 17 pp. 40–41 72.—A. hellmayri nom. nov. for A. chii auct., Tucuman, Argentine Repub., Hartert & Venturi Nov. Zool. 16 p. 165.—A. correndera, A. lutescens lutescens and A. furcatus furcatus, eggs figured, Hartert & Venturi Nov. Zool. 16 pp. 164–5.—A. camerunensis, sp. n. Peak of Cameroon, Oghvie-Grant Bull. Brit. Ornith. Cl. 25 p. 12.—†A. bosniaskii, sp. n. Lower Pliocene beds of Gabbro nr. Leghorn, Pycraft Proc. Zool. Soc. 1969 p. 368 text-fig. 47.

Macronyx, geographical distribution of the species of the genus, Nicholson Mem. Lit. Phil. Soc. Manchester 53 No. 24 pp. 1-11.

ALAUDIDÆ.

Otocorys alpestris, its relations to agriculture, Moater Bull. Biol. Surv. Washington No. 23 pp. 1-37 plate.

Alauda arvensis, Flug und Gosang, Gröbbels Ornith. Monatsber. 17 pp. 114-117.—A. arvensis cantarella, first record from Egypt, WITHERBY Bull. Brit. Ornith. Cl. 23 p. 97.

[Alaudula] Calandrella minor minor, occurrence near the Giza pyramids, Egypt, NICOLL Ibis 1909 p. 480.—C. minor heinei, first record from Egypt, WITHERBY Bull Brit. Ornith. Cl. 23 p. 97.—C. minor nicolli subsp. n., Nile delta, HARTERT Bull. Brit. Ornith. Cl. 25 p. 9.

Galerida cristata, in Algerien, KLEIN-SOHMIDT Falco 5 pp. 24-27.—Galerita cristata moeritica, subsp. n., Fayum, Egypt, NICOLL & BONHOTE Bull. Brit. Ornith. Cl 23 p. 101.—Alauda isabellina, new to avifauna of France, MOURQUE Feuille jeunes natural. 39 p. 87.

[Lullula] Alauda arborea, nesting habits observed in N. Devon, BARBER-STARKEY Brit. Birds 3 p. 7 pl. 1.

FRINGILLIDAE.

The migration of North American Sparrows, Cooke Bird-Lore 11 pp. 254-260.

Hesperiphona vespertina, again in Massachusetts, Brewster Auk 26 p. 194.

Coccothraustes vulgaris, occurrence in East Lothian, Scotland, Bonar Ann. Scot. Nat. Hist. 1909 p. 48; C. vulgaris vulgaris, occurring in Egypt, WITHERBY Bull. Brit. Ornith. Cl. 23 p. 98.

[Cyanocompsa] Guiraca cyanea, nesting in captivity, Teschemaker Avicult. Mag. 1 1909 p. 64.—G. cyanea argentina and G. glaucocaerulea, cggs figured, Hartert & Venturi Nov. Zool. 16 p. 174.

Sporophila leucoptera aequatorialis subsp. n, Mexiana, Brazil, Snethlage Bol. Mus. Goeldi Para 5 1909 p. 448.—Spermophila ruficollis, S. hypoxanthu, S. melanocephala melanocephala, eggs figured, Hartert & Venturi Nov. Zool. 16 p. 175.

Cardinalis cardinalis, at Ipswich, Mass., Brown Auk **26** p. 194.

Saltator similis, egg figured, Hartert & Venturi Nov. Zool. 16 p. 173.

Fringilla coelebs, breeding in winter, Forrest Brit. Birds 2 pp. 381, 424; albinotische Farbenvarietät (Schwedisch), Reuter Medd. Soc. Fauna et Fl. Fenn. 35 pp. 193 329; food, Greschik Aquila 15 1908 p. 310; occurrence at Kohat, first record for India, Whitehead Ibis 1909 p. 231.—F. coelebs gengleri subsp. n., England, Kleinschmidt Falco 5 p. 13.—F. montifringilla, occurrence in West Sutherland, Scotland, Henderson Ann. Scot. Nat. Hist. 1909 p. 47; breeding in Denmark, Christians Ornith. Tids. 3 p. 60.—F. montifringilla subcuneolata subsp. n. Kobe, Japan, Kleinschmidt Falco 5 p. 14.

Curduelis carduelis rumaeniae subsp. n. Rumaenien, Tschusi zu Schmidhoffen Ornith. Jahrb. 20 pp. 76-77.

[Spinus] Chrysomitris spinus, first record for Egypt, NICOLL Ibis 1909 p. 474.—S. pinus, near Detroit in winter, Wood Auk 26 p. 192; late records in Chester co. Pa., Pennock t.c. p. 308; in South Carolina, Brown t.c. p. 432.

Astragalinus psaltria mexicanus, in Colorado, Bergtold Auk 26 p. 79.

Linaria linaria, retaining their rose colour in confinement, WORMALD Avi-

cult. Mag. 7 1909 p. 359.—Linota rufescens, a resident in Sussex, Walfole-Bond Brit. Birds 3 p. 20; Alexander t.c. p. 56; breeding at Hampstead, Middlesex, Meyrick Zoologist 13 p. 270.—Acanthis hornemanni exilipes, at Westbrook, Me., Norton Auk 26 p. 308.

[Montifringilla] Leucosticte brunneinucha, in Krasnajarsk, Turgarinov Naša ochota 3 11 pp. 98-99.—M. cognata sp. n. Mongolia, Madarász Ann. Hist.-Nat. Mus. Nat. Hung. 7 p. 176 Plate iv figs. 2-3.

[Erythrospiza] Pyrrhula githaginea, neu für Vorarlberg, BAU Ornith. Jahrb. 20 pp. 150-151.

Petronia petronia, Winterbeobachtungen, SALTZMAN Ornith. Monatschr. 34 pp. 357-367 400-414.

Passer domesticus, cream coloured variety, CORBETT Naturalist London 1909 p. 441; habits in Boston U.S.A., TOWNSEND Auk 26 pp. 13-19; variations in specimens from England and from New England, Townsend & HARDY Auk 26 pp. 78-79; its adaptation to new conditions in Manitoba, CRIDDLE Ottawa Nat. 22 1909 p. 23. -P. domesticus niloticus subsp. Nile valley, NICOLL & BONHOTE Bull. Brit. Ornith. Cl. 23 p. 101.-P. pyrrhonotus, nesting in the Punjab, Currie Bombay J. Nat. Hist. Soc. 19 p. 259. -P. cinnamomeus, habits in the Himalayas, Perreau Avicult. Mag. 7 1909 p. 201; nosting in captivity TESCHEMAKER t.c. p. 205.—P. griseus, nest and eggs, BATES Ibis 1909 p. 54.

Serinus serinus, bei Danzig, IBATH Ornith. Monatsber. 17 p. 4; in Ostpreussen, TISCHLER t.c. pp. 82-83.— Serinus canarius, Farbenänderung, NOORDUYN Album der Natuur 1909 pp. 240-242.

Sycalis pelzelnii, nesting in captivity, TESCHEMAKER Avicult. Mag. 7 p. 298.

Lozia curvirostra, the irruption of 1909, Gould & Evans, Brit. Birds 3 p. 123; WITHERBY t.c. pp. 162 194 226 pl. 13 map; occurrences in Great Britain in 1909, Ticehurst Brit. Birds 3 p. 82; in Durham, Fawcett Naturalist 1909 p. 441; in Whitby district, Stephenson t.c. p. 398; its migrations, Walker and others t.c. p. 344; at Louth, Carter t.c. p. 280; the

recent visitation in Scotland, CLARKE Ann. Scot. Nat. Hist. 1909 p. 215; invasion en 1909, OLLIVIER Paris Bul. soc. zool. 34 pp. 250-251; Invasion auf Helgoland, Weigold D. Jägerztg. 53 p. 603; über den heurigen Massenzug, Tchusi zu Schmidhoffen Ornith. Monatsber. 17 pp. 169-171; grosser Kreuzschnabelzug, Tsonusi zu Schmid-HOFFEN Ornith. Monatschr. 34 p. 441; Invasion 1909, LEEGE Ornith. Monatschr. 34 pp. 369-370; zur dies-jähriger Kreuzschnabelinvasion, WEI-GOLD D. Jägerztg 54 pp. 345-347; the invasion of Crossbills in Switzerland in 1909, FISCHER-SIGWART Verh. Schweiz. Naturf. Ges. 92 pt. 1 pp. 495-496; movements and appearance in Hungary in summer 1909, GRESCHIK Aquila 16 pp. 299-305; in Südungarn, LINTIA Délmagy. Termt. Füz. 33 p. 199; the Italian invasion, Bonomi Avicula 12 pp. 35-37; the invasion in Elba, Damiant t.c. pp. 60-62; in the Swiss canton Ticino and it. S. Italy, GHIDINI t.c. pp. 96-97; in Calabria, GRIMALDI t.c. p. 97; in Capri, PICCHI, t.c. p. 103; incursione e nidificazione nell' Emilia, CAVAZZA Roma Boll. Soc. zool. ital. Scr. 2 10 pp. 462-470; in South Carolina, U.S.A., BROWN Auk 26 p. 432.—L. curvirostra sitkensis subsp. n., Alaska, Grinnell Berkeley Univ. Cal. Pub. Zool. 5 pp. 223-225. —L. rubrifasci da = L. curvirostra, Ognev Mater. faun. flor. Ross. 9 pp. 333-335.—L. bifasciata, in Fair Isle, CLARKE Ann. Scot. Nat. Hist. 1909 p. 71.

Pyrrhula europaea, partieller Albinismus, Johansen Ornith. Monatsber. 17 р. 140; ein lateral hermaphroditisch gefärbter Gimpel, Негквотн Berlin S. B. Ges. nat. Fr. 1909 pp. 328-330.—P. steeri sp. n. Bliss mt., Mindanao, Philippines, Меакия Proc. U. S. Nat. Mus. 36 p. 445.

Uragus sanguinolentus, obtained alive in Japan and taken to England, INGRAM Avicult. Mag. 7 p. 241.

Emberiza schoeniclus zarudnyi subsp.
n., Kuldscha, Chinese Turkestan,
Härms Ornith. Monatsber. 17 p. 1.—
E. pusilla, new to Norfolk, Gurnex
Zoologist 13 p. 124; at Sule Skerry,
Orkney Isles, CLARKE Ann. Scot. Nat.
Hist. 1909 p. 48; new to Ireland's
fauna, killed at Rockabill Light-house,

BARRINGTON Dublin Sci. Proc. R. Soc. 12 p. 18.—E. rustica, occurs in Fair Isle, CLARKE Ann. Scot. Nat. Hist. 1909 p. 71.

[Miliaria] Emberiza miliaria, in Sweden, Hallgren Fauna och Flora 3 1908 pp. 40-42.—M. calandra caucasica nom. n. fur M. c. minor pracocc., Buturlin Naša ochota 3 11 p. 90.—E. calandra buturlini subsp. n. flum. Kastek, Turkestan, Johansen Tomsk Izv Univ. 22 p. 20.

Fringillaria arabica, from south Arabia figured, LORENZ & HELLMAYR Wien Denkschr. Ak. Wiss. 71 p. 109 fig. 1.

Spiza townsendii original MSS. field notes of John K. Townsend, Deane Auk 26 pp. 269-272.

[Coturniculus] Ammodramus savannarum australis, at Ottawa, Eifrig Auk 26 p. 432.—A. savannarum intricatus, notes on habits and occurrence in San Domingo, Verrill Philadelphia Proc. Acad. Nat. Sci. 61 pp. 362-363.

Ammodramus lecontei, ranging north to Great Slave Lake, Anderson Auk 26 p. 80.

[Haemophila] Aimophila rufescens hypaethrus, subsp. n. Cerro, Sta. Maria, Costa Rica, Bangs Washington Proc. Biol. Soc. 22 p. 37.—A. ruficeps, nesting habits at Los Angeles, Cal., MYERS Condor 11 pp. 131-134 2 figs.

Poospiza torquata, egg figured, HAR-TERT & VENTURI Nov. Zool. 16 p. 178.

Junco phaeonotus palliatus, nesting in the Huachuca mts., Ariz., WILLARD Condor 11 p. 129 1 fig.

Zonotrichia querula, an addition to the birds of Indiana, BUTLER Proc. Acad. Sci. Indiana 1908 p. 49.—Z., albicollis, occurrence at the Flannan Isles, Scotland, SMALLEY Ann. Scot. Nat. Hist. 1909 p. 246.

Brachyspiza canicapilla, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 177.

Melospiza melodia maxillaris subsp. n., California, pp. 265–267, M. melodia gouldii subsp. n., California, pp. 267– 268, M. melodia saltonis subsp. n., California, pp. 268–269, GRINNELL Berkeley Univ. Cal. Pub. Zool. 5 1909. [Passerina] Cyanospiza leclancheri, from Mexico as a cage bird, Seth-Smith Avicult. Mag. 7 pp. 220-221.

Embernagra platensis, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 179.

[Coryphospiza] Donacospiza albifrons, egg figured, Hartert & Venturi Nov. Zool. 16 p. 180.

Pseudochloris olivascens berlepschi subsp. n. Pulacayo [Bolivia?], Menegaux Bul. soc. philom. 10th ser. 1 p. 212.

Phrygilus alaudinus venturii subsp. n. Tucuman, Argentine, Hartert & Venturi Nov. Zool. 16 p. 180.

[Charitospiza] Tiaris tortugensis sp. n. Tortuga Island, West Indies, Corv Field Mus. Publ. Ornith. 1 p. 221.

Paroaria capitata, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 182.

Arremon flavirostris polionotus, egg figured, Hartert & Venturi Nov. Zool. 16 p. 172.

Buarremon citrinellus, eggs figured, HARTERT & VENTURI Nov. Zool. 16 p. 172.

COEREBIDAE.

Coereba saccharina, danger of extinction and melanism of this form, Lowe Ibis 1909 p. 309.—C. laurae, melanism, Lowe t.c. p. 320.—C. lowii sp. n., Los Roques Isand, p. 217, and C. ferryi sp. n., Tortuga Island, p. 221, in the West Indies, Cory Field Mus. Publ. Ornith. 1 1909.

TANAGRIDAE.

Calospiza palmeri sp. n. Choco, Columbia, HELLMAYR Rev. Fr. d'Orn. 1 p. 49.

Spindalis multicolor, habits, occurrence, etc., in San Domingo, VERRILL Philadelphia Pa. Proc. Acad. Nat. Sci. 61 p. 363.

Piranga rubra, third record for Canada, SANDERS Auk 26 p. 308.

Chlorospingus fulvigularis, new to the Argentine, Hartert & Venturi Nov. Zool. 16 p. 172.

Cissopis leveriana, nesting in captivity ASTLEY Avicult. Mag. 7 p. 323.

PLOCEIDAE.

[Coliostruthus] Colius passer albonotatus, description of hitherto unknown female, HAAGNER J. S. Afric. Ornith. Union 5 p. 89.

Pyromelana flammiceps, nest and eggs, BATES Ibis 1909 p. 49.—P. oryx, its nesting parasites, ROBERTS J. S. Afric. Union 5 p. 16.—P. leuconota sp. n., Kiwu-See. Deutsch Ostafrika, REICHENOW Ornith. Monatsber. 17 p. 72; und J. Ornith 57 p. 504.

[Lepidopygia] Spermestes nigriceps, nesting in captivity, Teschemaker Avicult. Mag. 7 p. 321.

Paludipasser gen. nov. allied to Spermestes formed for type Paludipasser locustella sp. n., Lake Bangweolo, Neave Bull. Brit. Ornith. Cl. 25 p. 25.

Ortygospiza polyzona, breeding in captivity, Phillipps Avicult. Mag. 1 1909 p. 37.

Lagonosticta graueri sp. n., Lake Tanganyika, Congoland, Rothschild Bull. Brit. Ornith. Cl. 23 p. 102.

Sporaeginthus amandava, occurs in August in the Giza Zoological Gardens, NICOLL Ibis 1909 p. 475; breeding in Egypt, NICOLL Bull. Brit. Ornith. Cl. 23 p. 99.

Munia spectabilis, new to New Guinea, BEAUFORT Nova Guinea 5 p. 420.

Aidemosyne modesta, note on hybrid with Peophila personata, Sich Avicult. Mag. 7 p. 166.

Poëphila mirabilis, a plumage variation of Chloebia gouldiae, Charruaud Rev. Fr. d'Orn. 1 pp. 106-110 120-124.

Erythrura prasina, avicultural notes, Butler Avicult. Mag. 7 p. 296.—E. psittacea, breeding in captivity, Charruaud Rev. Fr. a'Orn. 1 pp. 58-60.

Neochmia phaëton, hybrid with Bathilda ruficauda, Astley Avicult. Mag. 7 p. 199.

Estrilda angolensis, breeding in captivity, Phillipps Avicult. Mag. 7 p. 339.—E. atricapilla, nest and eggs, Bates 1bis 1909 p. 52.

Malimbus cassini, M. coronatus and M. malimbicus, structure, habits and nest, Bates Ibis 1909 pp. 39-42.—M. gracilirostris sp. n. Awakubi, W. Africa, Reichenow J. Ornith. 57 p. 108.

[Sycobrotus] Ploceus bicolor, habits, nests and eggs, BATES Ibis 1909 p. 42.

[Phormoplectes] Ploceus dorsomaculatus, habits, nests and eggs, BATES Ibis 1909 p. 43.

Othyphantes bates, description of hitherto unknown male, Bates Bull. Brit. Ornith. Cl. 25 p. 41.

[Heterhyphantes] Ploceus nigricollis, habits, nets and eggs, Bates Ibis 1909 p. 43.

Melanopteryx nigerima, habits, nest and eggs, Bates Ibis 1909 p. 46.

[Hyphantornis] Ploceus cucullatus, habits nest and eggs, BATES Ibis 1909 p. 44.—H. spilonotus, nesting in captivity, Holden Avicult. Mag. 1 1909 p. 33.

Ploceus baya, nesting habits, Dewar Bombay J. Nat. Hist. Soc. 19 pp. 627-634.

Amblyospiza saturata, nest and eggs, Bates Ibis 1909 p. 48.

ICTERIDAE.

Dolichonyx oryzivorus, near Detroit in winter, Wood Auk 26 p. 192.

Tangavius aeneus involucratus, first record in Arizona, Visher Auk 26 p. 307.

Molothrus ater artemisiae subsp. n., Nevada, and the genetic relationships of the North American forms of the genus, Grinnell Berkeley Univ. Cal. Pub. Zool. 5 pp. 275-281 figs. 1-6.

Agelaius phoeniceus fortis, in Louisiana, Howell Auk 26 p. 192.— A. gubernator californicus, nesting in California, Mailliard Condor 11 p. 127.

Xanthocephalus xanthocephalus, a study of a breeding colony, and an account of their destruction by an unknown natural agency, ROBERTS Auk 26 pp. 371-389 pls. 5-16.

Sturnella magna, status near Portland, Me., Norton Auk 26 p. 307; breeding in Maine, Eckstorm t.c. p. 430.

Icterus giraudi, introduction as a cage bird, Gurney and Butler Avicult. Mag 7 p. 196.

Holoquiscalus orquillensis sp. n. Orquilla, West Indies, Cory Field Mus. Publ. Ornith. 1 p. 227.

STURNIDAE.

Sturnus vulgaris, unusual nesting sites, Ticehurst Brit. Birds 3 p. 118 2 text figures; its utility and harmfulness, Boas Kjöbenhavn Haven 9 p. 89; Röhne t.c. p. 133; Albinismus, Etzel Zool. Beob. 50 p. 25; near Springfield, Mass., Morris Auk 26 p. 306; nesting at Princeton N.J., Horsfall t.c. p. 430.—S. vulgaris purpurascens, first occurrence in Egypt, Nicoll Ibis 1909 p. 480.—S. balcanicus sp. n., Walachei, Buturlin & Härms Ornith. Monatsber. 17 p. 56.

Pastor roseus, breeding in Hungary, Schenk Aquila 16 p. 294 and Potf. Termt. Közl. 41 pp. 111-114; in Sudungarn, Lintia Délmagy. Termt. Fuz. 33 pp. 198-199; Zug im Jahre 1908. Tschusi zu Schmidhoffen Falco 5 pp. 8-12; neu für Vorarlberg, Bau, Ornith. Jahrb. 20 pp. 150-151; in Finnland, Levander Ornith. Monatsber. 17 pp. 5-6; in Finland, Brander F. Jakttidn. Helsingfors 3 pp. 337 374; im Gouv. Charkov, Averin Sborn. stud. Kruž. liub. prir. Chark. Univ. 1 pp. 70-71.

EULABETIDAE.

Lamprocolius splendidus glaucovirens and L. purpureiceps, habits nest and eggs, Bates Ibis 1909 p. 38.

Spreo torquatus sp. n., Kamerun, Reichenow Ornith. Monatsber. 17 p. 140.

ORIOLIDAE.

Oriolus oriolus, life history in France, GROMIER Rev. Fr. d'Orn. 1 pp. 66-72; O. galbula, habits in France, DUFFAUT Toulouse Bul. soc. hist. nat. 41 1908 p. 68.

DICRURIDAE.

Dicrurus balicassius mindorensis subsp n., Halcon mt., Mindoro, Philippines, Mearns Proe. U. S. Nat. Mus. 36 p. 447.—D. sharpii nest and eggs Bates Ibis 1909 p. 37.

[Dicruropsis] Chibia cagayanensis sp. n., Cagayan, Sulu Isle, Philippines, MEARNS Proc. U. S. Nat. Mus. 36 p. 447.

Buchanga leucopygiulis, pugnacious habits, Green Spolia Zcylan. 6 p. 130.

PARADISEIDAE.

A journey to New Guinea in search of live Birds of Paradise, Horsbrugh Ibis 1909 pp. 197-213.

The birds of Paradise, Evans Plymouth Aun. Rep. Trans. Inst. 14 p. 269.

Phonygama jamesi, Ei, NEHRKORN Ornith. Monatsber. 17 p. 44.

Manucodia ater, trachen figured, Oort Nova Guinea 9 p. 104.

Amblyornis subalaris and A. inornata, hardihood and other habits in eaptivity, ASTLEY Avicult. Mag. 7 p. 156.

Xanthomelus ardens, figured and redescribed, Oort Nova Guinea 9 p. 100 pl. iii; note on specific characters, Oort Ornith. Monatsber. 17 p. 72.

PTILONORHYNCHIDAE.

Prionodura newtoniana, habits, nest and eggs, North Vict. Nat. 25 pp. 160-168 pl. 7.

Scenopoeetes dentirostris, birds, young in nest, playground, figured, JACKSON Emu 8 pls. 21-23; habits, nest and eggs, NORTH Vict. Nat. 25 pp. 160-168 pl. 8.

CORVIDAE.

Trypanocorax frugilegus, habits in Yorkshire, Burton Naturalist London 1909 p. 146; Corvus frugilegus, au point de une de son utilité, Raspatl Rev. Fr. d'Orn. 1 pp. 2-9; Witterungsanzeiger, Nagy Aquila 15 p. 315; Dorning t.c. p. 316; a nesting eolony in Königsberg, Lühe Königsberg Schr. physik. Ges. 50 p. 174; in Brandenburg, Hocke Zs. Oologie 19 pp. 26-29 41-42; Abertation, Chlebovský Ornith. Jahrb. 20 p. 154; Schnabelmissbildung, Laubmann Ornith. Monatsber. 17 pp. 168-169; Winterleben, Zdobnitzky Brünn Zs. Mähr. Ld. Mus.

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7 pp. 98-124; wintering in Muonio. Lipland, [Swedish], MONTELL F. Jakttidn. 3 p. 193.

Corvus corax, ancient inland breeding places in Sussex, Fellden Brit. Birds 2 p. 279 and 3 p. 27; as scavangers, FEILDEN t.c. p. 57; nesting in Scotland, ADAM Edinburgh Trans. F. Nat. Soc. 6. p. 152; in der Gefangenschaft, BEHM Zool. Beob. 50 p. 225.—C. corax × C. cornix, Kreuzung, GROBLER Wild u. Hund 15 p. 501.—C. macrorhynchus, movements and partial migrations in northern India, MAGRATH Bombay J. Nat. Hist. Soc. 19 pp. 256-258.—C. cornix, ueber die Resultate, welche von der Vogelwarte Rositten, bisher erzielt wurden, THIENEMANN Königsberg Schr. physik. Ges. 49 p. 402; Kreuzschnabel, Hankó Pótf. Termt. Közl. 41 pp. 75-76; Albinos-Form (Finnisch), Wegksell Luonnon Luonnon Ystävä 13 p. 47; wintering in Muonio, Lapland, [Swedish], MONTELL Jakttidn. 3 p. 193 .- C. corone, albino in Yorkshire, Wilson Naturalist London 1909 p. 131; aus Vogelwarte Rositten, in Finland, getötet, HVIVEN-SALO Luonnon Ystävä Helsingfors 11 p. 136.—C. splendens, colour variation, GLASCOOK Bombay J. Nat. Hist. Soc. 19 p. 522; note on food habits in Ceylon, GREEN Spolia Zeylan. 5 p. 103; a case of the survival of the fittest, MANDERS t.c. p. 130.—C. americanus, feud with the Barred Owl, Chapman Bird-Lore 11 p. 4; a menace to Poultry raising, Cole Ann. Rep. Rhode Isl. Agric. Exper. Station 21 p. 312.

†Palaecorax moriorum, a fossil Raven from Chatham Isle, New Zealand, Pygraff Bull. Brit. Ornith. Cl. 23 p. 95.

Colaeus monedula, Witterungsanzeiger, NAGY Aquila 15 1908 p. 315; Lycos monedula, nuovo habitat toseano, Andreucoi Avicula 13 p. 1; C. monedula, totaler u. partieller Albinismus, Pogorželiskij Moskva Dnevn. zool. sada 3 pp. 181–183; C. monedula, Albinos, Pavlov Semja ochotn. 1909 p. 182.—Corvus neglectus, synonymy and discrimination, Salvadori Ibis 1909 pp. 134–7.

Nucifraga caryocatactes, die Fest stellung der Zugperioden und Simroths Pendulationstheorie, Schuster Zool. Anz. 33 pp. 833-836; Lebensweise in der Alpenländern Oesterreichs und das Brüten im Harze, Kleinschmidt Tschusi zu Schmidhofffen u. Menzel Berajah 1909 pp. 1-6 2 Taf.—N. hemispila macella subsp. n., China, Thayer & Bangs Cambridge Mass. Bull. Mus. Comp. Zool. 52 p. 140.

Pica pica, pairing habits, STUBBS Lancs. Nat. 2 p. 14; Lebensweise in den Akdzienwäldschen von Südmähren, WYMETAL Brünn Ber. Lehresklubs. f. Naturkde 9 pp. 51-55; Weisegeflügelte Form ein Altersmerkmal, Buturlin Naša ochota 1909 2 p. 57; P. rustica, sur l'enlevement des œufs d'oiseaux par la pie, RASPAIL Paris Bul. soc. zool. 33 p. 149 fig.; in Kohat, India, Whitehead Ibis 1909 p. 105.—P. sericea, new to Burma and nosting habits, Harrington Bombay J. Nat.

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Hist. Soc. 19 p. 108.—P. bottanensis, great intelligence, RADCLIFFE Bombay J. Nat. Hist. Soc. 19 p. 526.

Garrulus glandarius bambergi subsp. n. Ibizik, N. Mongolia, Lönnberg Ark. Zool. 5 No. 9 p. 12.—G. brandti, critical remarks on examples from Manchuria, Ingram Ibis 1909 p. 446.—G. brandti ussuriensis subsp. n. Ussuri-Gebiet, Buturlin Naša ochota 3 pp. 86-87.—G. melanocephalus Genénote on the type locality, Salvadori Torino Boll. Mus. zool. anat. 24 No. 607 pp. 1-2.

Cyanocorax cyanomelas, egg figured, HARTERT & VENTURI Nov. Zool. 16 p. 188.

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†Abel, O. Cetaceenstudien. i. Mitteilung: Das Skelett von Eurhinodelphis cocheteuxi aus dem Obermiozän von Antwerpen. Wien Sitzber. K. Akad. Wiss. 98 1909 (241–253) Taf.

†Abel, O. Cetaceenstudien. ii. Mitteilung: Der Schädel von Saurodelphis argentinus aus dem Pliozän Argentinas. Wien Sitzber. K. Akad. Wiss 98 1909 (256-277) Taf. 2

Abel, O. Bau und Geschichte der Erde. Wien u. Leipzig 1909 (viii + 220).

Abney, George. The Balance of Nature, and Modern Conditions of Cultivation: a Praetical Manual of Animal Foes and Friends. London 1909 (xlv + 278).

Adams, Lionel E. Some notes on the breeding-habits of the Common Mole. Manchester Mem. Lit. Phil. Soc. 54 1909 No. 2 (1-9).

Addison, W. H. F. vide Loeb, Leo.

Agar, W. E. On an embryonic appendage of the elaws of the Amniota. Anat. Anz. Jena 35 1909 (373-380).

Albrecht, Michael. Eigentümlichkeiten im Geschlechtsleben der Hunde. Wochenschr. Tierheilk. München 52 1908 (561 etc.). 7

Alezais. Les faisecaux d'origine du fléchisseur perforant des doigts. Bibliogr. anat. Nancy 18 1908 (162–165).

Allen, Glover M. and Barbour, Thomas. A new Marsupial from Netherlands New Guinca. Cambridge Mass. Proc. New England Zool. Club 4 1909 (43-46) pl. iii. 8 Allen, J. A. Osgood's revision of the Mice of the genus *Peromyscus*. Amer. Nat. Lankester Pa. 43 1909 (633-639). 9

Allen, J. A. Mammals from British East Africa, collected by the Tjäder Expedition of 1906. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (147-175).

Allen, J. A. The White Bear of South-western British Columbia. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (233-238).

Allen, J. A. Further notes on Mammals from the Island of Hainan, China. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (239-242). 12

Allen, J. A. Mammals from Shen-sî Province, China. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (425-430).

†Ameghino, Florentino. Le Diprotohomo platensis, un précurseur de l'Homme du Pliocène Inférieure de Buenos Aires. Bucnos Aires An. Mus. Nac. 19 1909 (107-209). 14

Ameghino, F. L'avant-première dentition dans le Tapir. Buenos Aires An. Mus. Nac. 20 1909 (1-30) pls. i-iv. 15

Ameghino, F. Una nueva especie de Tapir (*Tapirus spegazzinii*, n. sp.). [A new species of Tapir, etc.] Buenos Aires An. Mus. Nac. 20 1909 (31-38) pls. v-viii.

Ancel, P. et Bouin, P. Rut et corps jaune chez la Chienne. Paris C. R. soe. biol. 65 1908 (365-367).

Ancel, P. ct Bouin, P. Sur la fonction du corps jaune. Méthodes préliminaires. Paris C. R. soc. biol. 66 1909 (454-456).

Ancel, P. et Bouin, P. Sur la fonction du corps jaune. Action du corps jaune vrai sur la glande mammaire. Paris C. R. soc. biol. 66 1909 (605-607).

Andersen, Knud. Note on the genus Acerodon, with a synopsis of its species and sub-species, and descriptions of four new forms. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (20-29).

Andersen, K. On the characters and affinities of "Desmalopex" and Pteralopex. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (213-222). 21

Andersen, K. A new species of *Pteropus* from the Loyalty Islands. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (233).

Andersen, K. Two new Bats from the Solomon Islands. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (266-270).

Andersen, K. On the Fruit-bats of the genus *Dobsonia*. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (528–533).

Anderson, Malcolm P. Description of a new Japanese Vole. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (317 318).

Andersson, Lars Gabriel. Untersuchungen über die Entstehung der äusseren Genitalorgane und des Afters bei den Nagetieren. Ark. Zool. Stockholm 5 No. 4 1909 (1-230).

Andrews, C. W. On the fauna of Christmas Island. London Proc. Zool. Soc. 1909 (101-103). 27

†Andrews, C. W. Mandible of a new species of Tetrabelodon. Geol. Mag. London decade 5 6 1909 (347-350).

Andrews, Roy C. Observations on the habits of the Finback and Humpback Whales of the Eastern North Pacific. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (213–226). 29

Andrews, R. C. Further notes on Eubalaena glacialis. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (273-275) pls. xlvi-l. 30

[Anikiev, Ars. P.] Аникіевъ, Арс. II. Матеріалы къ вопросу объ одразованіи Venae anonymae sin. и развитіе gl. Thymus у Крота и у Кошки. [Bei-

träge zur Frage über die Bildung der Venae anonymae sin. und die Entwicklung der Gl. thymus bei dem Maulwurf und der Katze.] St. Peterburg Izv. voen.-med. Akad. 19 1909 (3-15). 31

Anon. Къ вопросу объ акклиматизаціи горныхъ породъ крупнаго рогатаго скота въ мъстностяхъ низменнаго
характера. [Zur Frage über die
Akklimatisation von Gebirgsrassen des
Hornviehs in Niederungen.] Kiev
Izv. Univ. 49 1909 10 (iii + 79). 32

Anthony, R. Le Mesoplodon de la Hongrie (2 novembre 1908). Paris C. R. Acad. sci. 149 1909 (461 462); et Bul. Muséum Paris 1909 (405-407).

Anthony, R. A propos du Mesoplodon échoué au Havre en 1825. Paris C. R. soc. biol. 67 1909 (536 537). 34

Anthony, R. A propos des caractères de l'Hemibradypus (Scæopus) torquatus, Ill. Paris Bul. soc. zool. 33 1908 (162-167).

Anthony, R. Recherches anatomiques sur les Bradypes arboricoles; le squelette du Paresseux à collier; ses rapports morphologiques avec celui des autres Bradypes. Paris Ann. Sci. Nat. Zool. ser. 9 9 1909 (157-285) pls. i-vi. 36

†Aranzadi, Telesforo de. Los últimos descubrimientos del Hombre fósil en Europa. [The latest discoveries of fossil Man in Europe.] Madrid Bol. Soc. Esp. Hist. Nat. 9 1909 (316-324) pl. iv. 37

Arcangeli, A. Einige histologische Beobachtungen über das Deckepithel des Oesophagus beim Meerschweinchen. (Mit besonderer Berücksichtigung des Keratohyalins.) Uebers, v. C. Müller. Monatshefte Derm. Hamburg 47 1908 (297–316).

†Arcelin, F. Découverte de Mammifères Quaternaires à Solutré. Lyon Ann. Soc. Linn. 55 1909 (151-153). 39

Argaud. Sur quelques particularités structurales de la glande azygos chez le Bœuf. Paris C. R. ass. franç. avanc. sci. 37 (Clermont-Ferrand) 1908 (561–562) 1909.

†Arldt, Th. Fossile Pferde Nordamerikas. Natw. Rdseh. Braunschweig 24 1909 (457 458). 40 Aschoff, L. Ueber den Glykogengehalt des Reizleitungssystems des Säugetierherzens. Nach Untersuchungen des Herrn Dr. Nagayo. Verh. D. path. Ges. Jena 12 1908 (150–153) Taf. 41

Assheton, Richard. Professor Hubrecht's paper on the early ontogenetic phenomena in Mammals; an appreciation and a criticism. Quart. Journ. Micr. Sci. London 54 1909 (221-277).

Athias, M. Les phénomènes de division de l'ovule dans les follicules de De Graaf en voie d'atrésie chez le Lérot (Eliomys quercinus [L.]). Anat. Anz. Jena 34 1909 (1-23).

Auer, Karl von. Das Ansprechen des Elch-Geweihs. N. Balt. Weidm.blt. Riga 4 1908 (77-79). 44

Aulmann, Georg. Die Mundrachenwand der Vögel und Säuger. Morph. Jahrb. Leipzig 39 1909 (34-82) pls. iv-vii.

Äyräpää, Selma. Hillerin levenemisestä Kotkassa ja sen ympäristössä. Über das Vorkommen von Foetorius putorius in der Gegend von Kotka, Finland.] Luonnon Ystävä Helsingfors 13 1909 (114).

†Bach, Franz. Zur Kenntnis obermiocäner Rhinocerotiden. Wich Jahrb. Geol. RchsAnst. 58 1909 (761– 776) Taf. 47

†Bach, F. Die tertiären Landsäugetiere der Steiermark. Graz Mitt. Natw. Ver. Steierm. 45 1909 (60-127).

Bagshawe, L. V. Tigers and their prey. Bombay J. Nat. Hist. Soc. 19 1909 (253).

Bailey, F. M. Note on a young Tibetan Gazelle. Bombay J. Nat. Hist. Soc. 19 1909 (521 522).

Balducci, Enrico. Di una nuova specie de Hylochoerus, l'Hylochoerus gigliolii. Firenze Pubbl. R. Ist. Stud. Super. 1909 (1-15) pl. 51

Ballowitz, E. Zur Kenntnis der Spermien der frugivoren Chiropteren und der Prosimier mit Einschluss von Chiromys madagascariensis, Desm. Anat. Anz. Jena 34 1909 (275–286). 52

Bán, Jenő. Fejlődési rendellenesség szarvasmarha hüvelynyilásán. [Entwicklungsabnormität an 'der Scheideöffnung des Rindes.] Állatorv. L. Budapest 32 1909 (352 353). 53

Bangs, Outram. List of the Mammals of Labrador. In Grenfell's Labrador: The Country and the People. New York 1909 (458-468). 54

Barbier, Camille le. Esquisse sur la pêche dans le province de Tuléar. Ann. Mus. Col. Marseille sér. 2 6 1908 (1-33). 55

Barbour, Thomas vide Allen, Glover M.

Bardeleben, Karl von. Ucber bilaterale Asymmetrie beim Menschen und bei höheren Tieren. Anat. Anz. Jena 34 ErgH. 1909 (2-72). 56

Barnabò, Valentino. Sulla riproduzione delle cellule interstiziali del testicolo. Roma Boll. Soc. zool. ital. ser. 2 10 1909 (459-461).

Barrier et Lecaplain. Les articulations à "ressort" des Equidés. C. R. Assoc. Anat. 9 Nancy 1907 (66-72). 57a

Barski, Kazimierz. Więzadła miednicy u konia. [Les ligaments du bassin du Cheval.] Przegl. weter. Lwów 1909 (206-215). 57b

Bassal, L. vide Cluzet, J.

†Bate, Miss Dorothea M. A. A new Artiodactyle from Majorca. Geol. Mag. London decade 5 6 1909 (385– 388). 58

Baudouin, C. Das Lernen des Hundes nach Versuchen mit der Pawlowschen Speichelmethode. Berlin 1909 (1-48). 59

Bauer, Ernst. Formen und Farben des Edelhirschgeweihes. Verh. pomm. Forstver. Stettin 1909 (85-94) 1910. 60

Bauer, Julius. Vergleichend anatomische Untersuehung der hinteren Rückenmarkswurzeln der Säugetiere nebst Bemerkungen zur tabischen Hinterstrangserkrankung. Arb. neurol. Inst. Wien Leipzig 17 1908 (98–117). 61

†Baume, Wolfgang La. Beitrag zur Kenntnis der fossilen und subfossilen Boviden, mit besonderer Berücksichtigung der im Westpreussichen Provinzial- Museum zu Danzig befindlichen Reste. Danzig Schrift. Nat. Ges. ser. 2 12 1909 (45-80) Taf. i-vii.

Baumgart, Martin. Vergleichende Untersuchungen über Mus rattus und Mus decumanus und über die Ursachen der Verdrängung der Hausratte durch die Wanderratte. Dresden 1904 (1-96) 2 Taf. 63

Beccari, Nello. Le ghiandole suborbitali nella Gazella dorcas. Monit. zool. ital. Firenze 20 1909 (1-10). 64

Beccari, N. Sullo sviluppo delle ghiandole sudoripare e sebacee nella Peeora. Archivio ital. Anat. Embriol. Firenze 8 1909 (271–291) 2 tav. 65

Beddard, Frank E. Contributions to the anatomy of certain Ungulata, including Tapirus, Hyrax and Antilocapra. London Proc. Zool. Soc. 1909 (160-197).

Beddard, F. E. On some points in the structure of Galidia elegans, and on the posteaval veins in Carnivores. London Proc. Zool. Soc. 1909 (477-496).

Beddard, F. E. On the postcaval vein and its branches in certain Mammals. London Proc. Zool. Soc. 1909 (496-526).

Beddard, F. E. On some points in the structure of the Lesser Anteater (Tamandua tetradactyla), with notes on the cerebral arteries of Myrmecophaga and on the postcaval of Orycteropus. London Proc. Zool. Soc. 1909 (683-703).

Beddard, F. E. Notes upon the anatomy of Monkeys of the genus *Pithecia*. London Proc. Zool. Soc. 1909 (928-943).

Bell, E. T. (1) On the occurrence of fat in the epithelium, cartilage, and muscle fibres of the Ox. (2) On the histogenesis of the adipose tissue of the Ox. Amer. J. Anat. Philadelphia Pa. 9 1909 (401-438) 2 pls. 71

Bell-Marley, H. W. Hunting the Hump-back Whale (Megaptera longimana) in Natal waters. Zoologist London scr. 4 12 1909 (54-63). 72

Belz, Erich. Physiologische und klinische Beobachtungen über die Rumination. Giessen 1909 (1-93). 73

Bemmelen, J. F. Van. Ueber den Unterschied zwischen Hasen- und Kaninchenschaedelen. Leiden Onderzoek. Zool. Lab. Rijksuniversit. Groningen 1 1909 (1-139). Bender, Otto. Die Halsorgane von Orycteropus afer (Pallas) und Tamandua tetradactyla, L.: Ein Beitrag zur vergleichenden Anatomie des Schlund- und Kehlkopfes der Säugetiere. Jena Denkschr. med. Ges. 15 1909 (373–400).

Bennett. Notes on Monotremes-Queensland Nat. Brisbane 1 1909 (105). 75a

Berezowski, Andrzej. Przyczynek do badań nad różnicami rasowemi w budowie jajnika świni domowej. [Les différences dans la structure de l'ovaire chez les différentes races suines.] Wszechświat Warszawa 28 1909 (109– 111). 76

Berger, A. In Afrikas Wildkammern als Forscher und Jäger. Berlin 1909 (xvi × 431) 40 Taf. 77

Bernhardt, Ludwig. Feststellung der Zahl der Samenfäden im Sperma des Hengstes. Berliner tierärztl. Wochenschr. 1908 (793 794). 78

Berstein, Berthe. A propos d'un eas d'utérus bicornis septus chez Macacus rhesus. Genève Thése méd. 1908 (1-33).

Bertelli, Dante. I condotti ed i foramini della mandibola nei Mammiferi. Archivio ital. Anat. Embriol. Firenze 8 (155-229) 4 tav. 1909.

Bezold, Friedrich. Gehörorgan des erwachsenen Wales. In Bezold, Ueber die funktionelle Prüfung des menschl. Gehörorgans, 3. Wiesbaden 1909 (66-69).

Biach, Paul. Zur Tierähnliehkeit im menschlichen Rückenmarke. Neurol. Centralbl. Leipzig 27 1908 (507– 511). 82

[Bianchi, V.] Біанки, В. Замѣтки о млекопитающихъ, водящихся въ береговой полосѣ Петергофскаго уѣвда между деревнями Лебижыя и Черная Лахта. [Арсгçu sur les Mammifères qui se trouvent aux environs des villages Lébiajié et Tschernaja Lakhte, distr. Péterhof du gouv. de St. Pétersbourg.] St. Peterburg Ann. mus. zool. 14 1909 (107-118).

Billard, G. Immunité naturelle du Lérot commun (Eliomys nitela, Wagner) contre le venin de la Vipère. Paris C. R. soc. biol. 67 1907 (90 91). Birkner, F. vide Schlosser, Max.

†[Bjalynicki-Birula, Th. A.] Бялыницкій-Бируля, О. А. Гистологическія и микрохимическія наблюденія падъ тканями Березовскаго мамонта. [Histologische und mikrochemische Beobachtungen an den Geweben des Mammuts von der Beresovka.] Wiss. Erg. ein. v. d. K. Ak. d. Wiss. zur Ausgrab. d. i. J. 1901 a. d. Beresovka gefund. Mammutkadavers ausgerüst. Exped. Bd. 2. St. Peterburg 1909 (1–20) Taf.

Blanford, N. R. Wild Pigs' lairs in the rains. Bombay J. Nat. Hist. Soc. 19 1909 (254).

Bley, Fritz. Das Erstlingsgeweih des Elches. N. Balt. Weidm.-blt. Riga 5 1909 (169–173).

Bluntschli, H. Versuch einer Phylogenese der Granulationes arachnoideales (Pacchioni) bei den Primaten. Verh. Ges. D. Natf. Leipzig 80 ii 1909 (363 364).

Boas, J. E. V. Der Fuss der Carnivoren. Zool. Anz. Leipzig 34 1909 (524–538).

Boas, J. E. V. Nogle Bemærkninger om Rovdyrenes Fod. [Some remarks on the foot of Carnivora.] Kjobenhavn Dansk, Vidensk. Selsk. Forh. 1909 (181-194).

Boas, J. E. V. Egern-Skiaelning. Injury to the bark of fir and pine trees caused by *Sciurus vulgaris*. Köbenhavn Tids. Skov. 21 1909 (101– 103) 3 pl. 91

Boeke, J. De menschelijke anatomie in hare verhouding tot vergelijkende anatomie en ontwikkelingsgeschiedenis. [Die menschliche Anatomie in ihrem Verhältnis zur vergleichenden Anatomie und Entwicklungsgeschichte.] Leiden 1909 (1-41).

Boettger, O. vide Zimmermann, Rud.

[Bogomolez, A. М.] Богомолецъ, А. М. Къ физіологіи надиочечныхъ железъ. Супраренотоксины [Zur Physiologie der Glandulae suprarenales. Die Suprarenotoxine.] Russ. vrač St. Peterburg 8 1909 (872–878). 93

[Boldyrev, F. N.] Болдыревъ, Ф. Н. Новый способъ изслѣдованія отправленій пищеварительнаго прибора и результаты, достигнутые съ его помощью. [Eine neue Methode zur

Untersuchung der Funktionen des Verdauungsapparatus und die vermittelst derselben erzielten Resultate.] Russ. vrač St. Peterburg 8 1909 (1337–1341).

Bolk, L. Over de ligging en verschuiving van het foramen magnum bij de Primaten. [On the position and displacement of the foramen magnum in the Primates.] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (62-78); Proc. Sci. K. Akad. Wet. 12 1909 (362-377). 95

Bolk, L. Over de helling van het foramen magnum bij de Primaten (2° mededeeling over de vergelijkende craniologie der Primaten). [On the slope of the foramen magnum in Primates (2nd Paper on the comparative craniology of Primates).] Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (551–560); Proc. Sci. K. Akad. Wet. 12 1909 (525–534). 96

Bonhote, J. Lewis. On a small collection of Mammals from Egypt. London Proc. Zool. Soc. 1909 (788–798).

Bonne, C. vide Soulié, A.

†[Borissjak, A. A.] Борисякъ, А. А. О повыхъ находкахъ млекопитающихъ въ Сарматскихъ отложеніяхъ Севастополя. [Uebcr neue Säugetierfunde in der sarmatischen Schicht von Sevastopol.] Moskva Dnevn. xii. Sjězda russ. jest. vrač. 1909–1910 (264–265). 98

Bouin, P. et Ancel, P. Sur le follicule de de Graaf mûr et la formation du corps jaune chez la Chienne. Paris C. R. soc. biol. 65 1908 (314-316). 99

Bouin, P. et Ancel, P. Sur la fonction du corps jaune. Action du corps jaune vrai sur l'utérus. Paris C. R. soc. biol. 66 1909 (505-507). 100

Bouin, P. et Ancel, P. Sur la fonction du corps jaune (4° Note préliminaire). Démonstration expérimentale de l'action du corps jaune sur l'utérus de la glande mammaire. Paris C. R. soc. biol. 66 1909 (689–690).

Bouin, P. vide Ancel, P.

Branca, A. Sur le développement du vestibule des fosses nasales. C. R. ass. anat. Paris 10 Nancy 1908 (187– 192). 100b Brander, V. Algstatistik för år 1907. [Elchstatistik für das Jahr 1907.] F. Jakttidn. Helsingfors 3 1908 (102-104).

Brander, V. Om harens läten. [Über die Lauten des Hasen.] F. Jakttidn. Helsingfors 3 1908 (182–185).

Brander, V. Fjällräfvar i södra Finland. [Canis lagopus in Süd-Finland.] F. Jakttidn. Helsingfors 4 1909 (36 94). 103

Brander, V. Älgstatistik för år 1908. [Elchstatistik für das Jahr 1908.] F. Jakttidn. Helsingfors 4 1909 (134-136).

Brander, V. Rådjuren å Karelska näset. [Cervus capreolus auf dem Isthmus Karelicus.] F. Jakttidn. Helsingfors 4 1909 (275 303).

Brandes-Halle, G. Zur Anatomie von Lemur catta. Verh. Ges. D. Natf. Leipzig 80 2 1909 (196 197). 106

Brasil, L. Les Cétacés du Musée d'Histoire naturelle de Caen. Caen Bul. soe. linn. sér. 6 1 1909 (157-261).

Brasil, L. Sur le *Mesoplodon bidens* échoué au Havre en 1825. Paris C. R. soc. biol. 67 1909 (479 480). 108

Brasil, L. Un dernier mot sur le Mesoplodon échoué au Havre en 1825: réponse à M. Anthony. Paris C. R. soc. biol. 67 1909 (656 657). 109

Brasil, L. et Pennetier, G. Le Zèbre du Muséum d'histoire naturelle de Rouen (Equus burchelli pococki). Caen Mem. Soe. Linn. Normand. 23 1909 (97-117) pls. vi vii.

Brass, Arnold. Das Affen-Problem. Professor E. Haeckel's Darstellungsund Kampfesweise sachlich dargelegt nebst Bemerkungen über Atmungsorgane und Körperform der WirbeltierEmbryonen. Leipzig 1909 2. Aufl. 1909 (1-88).

Brauer. Die Susswasserfauna Deutschlands, Berlin, 1909. Mammalia von P. Matschie (1-14). 112

Braun, Max. Das Skelett eines Weisswales (Delphinapterus leucus Pall.). Königsberg Schr. physik. Ges. 49 1908 (409–412) 1909.

†Braun, M. Eine riesige Elchschaufel. Königsberg Schr. physik. Ges. 51 1908 (412 413) 1909. 114

Brewster, William. The Otter in eastern Massachusetts. Science New York N.Y. ser. 2 29 1909 (551-555).

Brinkmann, August. Ueber das Vorkommen von Hautdrüsenorganen bei den anthropomorphen Affen. Anat. Anz. Jena 34 1909 (513-520).

[British Museum.] Guide to the Whales, Porpoises and Dolphins (Order Cetacca) in the Department of Zoology. British Museum (R. Lydekker) London 1909 (1-47).

Brockman, Drake, R. E. vide Drake-Brockman, R. E.

Brodmann, K. Beiträge zur histologischen Lokalisation der Grosshirnrinde. vii. Mitt.: Die cytoarchitektonische Cortexgliederung der Halbaffen (Lemuriden). J. Psychol. Leipzig 10 ErgH. 1908 (287-334) 9 Taf. 118

Broek, A. J. P. van den. Beschouwingen over den deseensus testieulorum. [Betrachtungen über den Deseensus testiculorum.] Amsterdam Werk. Gen. Nat. Genees. Heelk. ser. 2 6 2 1909 (89-91).

Broman, Ivar. Untersuchungen über die Embryonal-Entwicklung der Pinnipedia. In Deutsche Südpolar-Exped. 11 Zool. Berlin 1909 (245–268) Taf. xxviii-xxxii. 119a

Broom, R. On the organ of Jacobson in Orycteropus. London Proc. Zool. Soc. 1909 (680-683).

†Broom, R. On a large extinct species of *Bubalis*. London Ann. S. African Mus. 7 1909 (279 280). 121

†Broom, R. On evidence of a large Horse recently extinct in South Africa. London Ann. S. African Mus. 7 1909 (281 282).

Broom, R. On the milk-dentition of Orycteropus. London Ann. S. African Mus. 5 1909 (381-384). 123

Broom, R. Observations on the development of the Marsupial skull. Sydney Proc. Linn. Soc. N. South Wales 34 1909 (195-219) pls. x-xvi.

Broom, R. Some observations on the dentition of *Chrysochloris*, and on the tritubercular theory. Ann. Natal. Gov. Mus. London 2 1909 (129-139) pl. ii. 125 Mammalian alisphenoid bone. Rep. S. African Assoc. Ad. Sci. Cape Town 1907 (114 115) 1908. 126

Brown, Arthur Erwin. The tuberculin test: with notes on the temperature of Mammals. London Proc. Zool. Soc. 1909 (81-90).

Bruce, William S. Report on the scientific results of the voyage of S.Y. "Scotia." Edinburgh 4 Cetacea 1909.

Bruntz, L. vide Spillmann, L.

Burki, E. Die Synovialgruben des Rindes. Schweiz. Arch. Thierheilk Zurich 47 1905 (263–265). 129

Burne, R. H. Notes on the viscera of a Walrus (Odobaenus rosmarus). London Proc. Zool. Soc. 1909 (732– 738).

Burne, R. H. A gland upon the earconch of *Dasypus maugei*. J. Anat. Physiol. London 43 1909 (312 313).

Burton, R. G. The fear of Man in Wild Animals. Bombay J. Nat. Hist. Soc. 19 1909 (276-279). 131

Cabrera, A. Un nuevo Rhinolophus filipino. [A new Philippine Rhinolophus.] Madrid Bol. Soc. Españ. Hist. Nat. 9 1909 (304-306). 132

†Calvin, Samuel. Aftonian Mammalian fauna. Bull. Geol. Soc. Amer. New York N.Y. 20 1909 (341-356) pls. xvi-xxvii. 133

Camerano, Lorenzo. Ricerche intorno al Colobus occidentalis Rochebr. e ad altre specie affini. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia. Parte scientifica 1 Milano 1909 (1-66).

Camerano, L. Osservazioni intorno al Felis pardus subsp. ruwenzorii Camer. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia. Parte scientifica 1 Milano 1909 (89-110).

Camerano, L. Osservazioni intorno al Buffelus caffer subsp. radcliffei, Oldf. Thomas. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia. Parte scientifica 1 Milano 1909 (139-144).

Camerano, L. Osservazioni intorno all'Equus quagga subsp. granti, Winton. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia. Parte Scientifica 1 Milano 1909 (145-154).

Cancarte, René. La placentophagic. Paris Bul. soc. nat. acclim. 55 1908 (460-470).

Carlsson, Fräulein Albertina. Die Macroscelididae und ihre Beziehungen zu den übrigen Insectivoren. Zool. Jahrb. Abt. f. Syst. Jena 28 1909 (349 400).

Carraro, Arturo. Ueber Hypophysisverpflanzung. Arch. Entw-Mech. Leipzig 28 1909 (169-180) Taf.

Carrau, A. vide Jolly, J.

Carruccio, Antonio. Sullo Stambecco dei Pirenei e sulla memoria del Prof. L. Camerano intorno agli Stambecchi delle Alpi. Roma Boll. Soc. zool. ital. ser. 2 10 1909 (184–201). 140

Carruccio, A. Sovra una fra le più pregiate specie del gen. Pteromys. Roma Boll. Soc. zool. ital. ser. 2 10 1909 (267-273).

Carruthers, Douglas. The Arabian Oryx. Field London 114 1909 (422).

Carruthers, D. Severtzoff's sheep from Russian Turkestan. Field London 114 1909 (623).

Carruthers, D. The Big Game of Syria, Palestine, and Sinai. Field London 114 1909 (1435). 144

Castle, W. E. Colour-variation among Domesticated Animals. Amer. Breeders' Assoc. Rep. Washington D.C. 4 1908 (172–180).

Castle, W. E. and Little, C. C. The peculiar inheritance of pink eyes among Coloured Mice. Science New York N.Y. ser. 2 30 1909 (313-314).

Cavazza, Filippo. Studien über die in Italien vorkommenden Wieselarten der Untergattung Arctogale. Zool. Anz. Leipzig 34 1909 (582–603). 147

Cavazza, F. Sulle Donnole e sull'Ermellino in Italia. Roma Boll. Soc. zool. ital. ser. 2 10 1909 (256–264). 148

Cavriani, Carlo. Le razze Gonzaghesche di Cavalli nel Mantovano e la loro influenza sul puro inglese. Rassegna Contemporanea Roma 2 fasc. 3 1909 (117-132). 149 Cesa-Bianchi, Domenico. Di alcune particolarità di struttura e dei fenomeni di secrezione del corpo luteo. Intern. Monatschr. Anat. Leipzig 25 1908 (1-43) 1 Taf.

Cesaresco, Countess Evenlyn Martinengo. The Place of Animals in Human Thought. London 1909 (1-377) pls.

Chappellier, A. Follicules pluriovulaires et dégénérescence ovulaire chez la Souris blanche. Paris C. R. soc. biol. 66 1909 (543-545). 152

Chapin, James vide Miller, W. DeW.

Charbonnier, H. J. vide Rudge, C. K.

Chubb, E. C. On Mammals from the Upper Zambesi River. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (33-36). 153

Chubb, E. C. The Mammals of Matabeleland. London Proc. Zool. Soc. 1909 (113-125).

Chubb, E. C. A new Elephant-Shrew from Johannesburg. Ann. Transvaal Mus. Pretoria 1 1909 (181). 155

Chubb, E. C. List of Vertebrates collected by Messrs. F. P. Mennell and E. C. Chubb in the Matopo Hills, Matabeleland. Bulawayo Proc. Rhodes. Sci. Assoc. 8 1908 (60-63).

cleland, J. Burton. Diurnal variations in the temperatures of Camels. Sydney Proc. Linn. Soc. N. South Wales 34 1909 (268-271).

Cluzet, J. et Bassal, L. De l'action des rayons X sur l'évolution de la mamelle pendant la grossesse. J. anat. physiol. Paris 44 1908 (453-469) 2 pls. 158

†Cockerell, T. D. A. A fossil Ground-Sloth in Colorado. Colorado Univ. Stud. 6 1909 (309-312) pl. 159

Collett, R. Hjorte i Norge (Cervus elaphus atlanticus), nogle biologiske Meddelelser. [Norwegian Deer, biological notes.] Bergens Mus. Aarbog 1909 No. 6 (1-31) 2 pls. 160

Collett, R. A few notes on the Whale Balæna glacialis and its capture in recent years in the North Atlantic by Norwegian whalers. London Proc. Zool. Soc. 1909 (91-98) pls. xxv-xxvii.

Collett, R. Sicista subtilis found in Norway in 1907 and 1908. Zool. Anz. Leipzig 34 1909 (379–381). 162

Collett, R. Sicista subtilis in Norway. Christiania Vid. Selsk. Forl. 1909 No. 11 (1-10).

Collin, Rémy. Les variations de structure à l'état normal du noyau de la cellule nerveuse tomatochrome chez le Cobaye. C. R. ass. anat. Paris 10 Nancy 1908 (21-29). 163a

†Commont. Contribution à la fauna quaternaire du Nord de la France. Amiens Bull. Soc. Linn. Nord. France 19 1909 (432-436).

Conwentz, H. The care of Natural Monuments, with special reference to Great Britain and Germany. Cambridge 1909 (xi + 185).

Cooch Behar, Maharaja of. Thirtyseven years of Big Game Shooting in Cooch Behar, the Duars, and Assam. London and Bombay 1908 (xxviii + 468).

†Gook, Harold James. Notice of a new Camel from the Lower Miocene of Nebraska. Amer. Nat. Lankester Pa. 43 1909 (188 189). 167

†Gook, H. J. A new Proboscidean from the Lower Miocene of Nebraska. Amer. J. Sci. New Haven Conn. ser. 4 28 1909 (183 184). 168

Cook, H. J. vide Matthew, W. D.

†**Gossmann.** Rectifications de nomenclature. Rev. crit. paléozool. Paris 11 1907 (64–268). 169

Goulter, Calvin B. The early development of the aortic arches of the Cat, with especial reference to the presence of the fifth arch. Anat. Rec. Philadelphia Pa. 3 1909 (578-592).

†Courty, G. et Hamelin, L. Géologic du Bassin de Paris. Paris C. R. Ass. franç. Avanc. Sci. 1908 livraison apart (1-65).

Coyle, Ray E. The development of the auditory ossicles in the Horse, with a note on their possible homologues in the Lower Vertebrates. Edinburgh Proc. R. Soc. 29 1909 (582-600) 6 pls.

[Čugunov, V. N.] Чугуновъ, В. П. Аномалія мочевого нузыря у коровы. [Eine Anomalie der Harnblase bei

einer Kuh.] Mess. med. vet. soc. St. Peterburg 21 1909 (358). 173

Cunningham, D. J., Waterston, David, Thomson, R. B., Hepburn, David and Brown, R. N. Rudmore. Report on the scientific results of the voyage of S.Y. "Scotia." Edinburgh 4 Otariidae and Phocidae 1909. 173a

Cutore, N. Di una particolare formazione prepineale nel Bos taurus. Archivio ital. Anat. Embriol. Firenze 8 1909 (230-236) 1 tav.

Davies, H. S. Malayan variety of the Sambhur (Cervus unicolor). Bombay J. Nat. Hist. Soc. 19 1909 (253 254).

Decoppet, M. Importance forestière de l'Ecureuil. Chron. Agric. Lausanne 18 1905 (359-361 431-434).

Dederer, Miss Pauline H. Comparison of Cænolestes with Polyprotodonta and Diprotodonta. Amer. Nat. Lancaster P. A. 43 1909 (616-618). 177

Dénarié. Observations nouvelles sur quelques Animaux de la Savoie disparus ou en voie de disparition. Chambéry Bul. soc. hist. nat. sér. 2 11 1906 (121-134). 178

†Deniker, J. Nouvelle trouvaille de Mammouth en Sibérie. Nature Paris 37 1909 (284).

†Depéret, Charles. The Transformations of the Animal World (a translation of "Les Transformations du Monde Animal." London (Internat. Scient. Ser.) 1909 (xvi + 360).

Denéret. C. L'évolution des Mammifères tertiaires; importance des migrations. Epoque pliocène. Paris C. R. Acad. Sci. 148 1909 (140-143).

De Vis, C. W. On a new species of Wombat. Ann. Queensland Mus. No. 5 1900 (14). 182

Deyrolle, Étienne. Les Paresseux. Naturaliste Paris 31 1909 (105 106). 183

†Dietrich, W. Neue Riesenhirschreste aus dem schwäbischen Diluvium. Stuttgart Jahreshefte Ver. Natk. 65 1909 (132-161) 3 Taf. 184

Dilg, Carl. Beiträge zur Kentniss der Morphologie und postembryonalen Entwicklung des Schädels bei Manatus inunguis, Natt. Morph. Jahrb. Leipzig 39 1909 (83-145) pls. viii-xiii. 185

Dinnik. N. Kaukasische Steinböcke oder Ture. N. Balt. Weiden-blt. Riga 4 1908 (2-8 25-28 50-54 73-77 105-109 121-125). Translation of 186 No. 187.7

[Dinnik, N. Ja.] Динникъ, Н. Я. Кавказскіе каменные козлы или туры. [Die kaukasischen Steinböcke oder Ture. 1 Mater. faun. flor. Ross. Moskva 9 1909 (1-47).

[Dinnik, N.] Динникъ, Н. Уничтоженіе крупной дичи и пушнаго ввъря въ горахъ Кубанской области. [Ueber die Vernichtung des Hochwildes und des Rauchwildes in den Bergen des Kuban-Gebietes.] Semja ochotn. Moskva 1909 (219-223 241-244).

Dixon, Joseph. A new Harvest-Mouse from Petaluma, California. Berkeley Univ. Calif. Publ. Zool. 5 1909 (271-273).

[Dizderew, P.] Диздеревъ, II. Къ вопросу о гистологическомъ строеніи надпочечниковъ у доманнихъ млско-питающихъ. [Zur Frage über den histologischen Bau der Nebennieren bei den Haustieren.] Jurjev Zs. wiss. u. prakt. Veterin. med. 3 1 1909 (1-137) 1 Taf. 190

Dollman, Guy. On Mammals collected by Mr. S. A. Neave in Katanga, Congo Free State. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (350-354). 191

Dollman, G. Six new species of Aotus. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (199-204).

Dollman, G. A new species of Presbytis, allied to P. rubicundus. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (204 205).

Dollman, G. A new species of Fossa from Central Madagascar. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (306 307). 194

Two new species of Dollman, G. Colobus from Central Africa. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (474-476).195

Dollman, G. New Mammals from British East Africa. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (549-543).

†Dollo, L. The fossil Vertebrata New York Rep. Ann. of Belgium. Acad. Sci. 19 1909 (99-119) pls. vii-x. 196a †Doss, Bruno. Ueber einige neolithische Funde bei Sezlock in Livland. Riga Korr.-blt. Naturf. Ver. 52 1909 (83-90).

Dräseke, J. Zur Kenntnis des Hyraciden-Gehirns. [In: Reise in Ostafrika v. A. Voeltzkow. Bd 4.] Stuttgart 1909 (267-277).

Drake-Brockman, R. E. The [Big-Game] Fauna of Abyssinia. Journ-Soc. Preserv. Wild Fauna London 5 1909 (110-113).

Drake-Brockman, R. E. On a new species and a new subspecies of the genus *Madoqua* and a new subspecies of the genus *Rhynchotragus*. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (48-51).

Dubois, Eug. vide Sclenka, M.

Dubreuil, G. et Regaud, Cl. Action du mâle sur le rut et l'ovulation chez la Lapine. iii. Accélération du rut par la cohabitation avec le mâle. Paris C. R. soc. biol. 66 1909 (139-141).

Dubreuil, G. et Regaud, Cl. Sur les relations fonctionnelles des corps jaunes avec l'utérus non gravide. iii. Etats successifs de l'utérus, chez le même sujet, aux diverses phases de la période prégravidique. Paris C. R. soc. biol. 66 1909 (413-415).

Dubreuil, G. et Regaud, Cl. Sur les follicules ovariens hémorragiques et sur le mécanisme de la déhiscence des follicules. Paris C. R. soc. biol. 66 1909 (828-830). 202a

Dubreuil, G. vide Regaud, Cl.

Duesberg, J. Note complémentaire sur la spermatogenèse du Rat. Arch. Zellforschg Leipzig 3 1909 (553-562). 203

Durand, S. vide Jammes, L.

Dybowski, B. O zebach anormalnych w uzebieniu zwierzat saacych. [Pri la dentoj malnormalaj en dentostatoj de l'sucbestoj.] Kosmos Lwów 34 1909 (39-57). 204

Dybowski, B. O palcach nadliczbowych u zwierząt ssących. [Pri la fingroj supernombraj de l'sucbestoj.] Kosmos Lwów 34 1909 (58-71). 205

[Džavachov, G. А.] Джаваховъ, Г. А. Сагиттальный разрёзъ черепа размёныхъ обезьять (по сравнейю съ лему-

ридами и человѣкомъ. [Coupe sagittale du crâne de différents Singes, en comparaison avec les Lémurides et les Races Humaines.] St. Peterburg Bull. Ac. Sc. sér. 6 1909 (687-711). 206

E.B.C. Gibt es Leporiden? Schweiz. Bl. Ornithol. Zürich 32 1908 (356–358 373 374).

Ebner, V. Ueber scheinbare und wirkliche Radiärfasern des Zahnbeincs. Anat. Anz. Jena 34 1909 (289-309). — Entgegnung darauf v. K. v. Korff. Ebenda 35 1909 (257-280). 208

Eckstein, Karl. Wintervorräte der Erdmaus, Arvicola agrestis. Nach Beobachtungen von E. Förster. Natw. Zs. Landw. Stuttgart 7 1909 (586-588). 209

Edinger, L. Ueber die dem Oral sinne dienenden Apparate am Gehirn der Säuger. D. Zs. Nervenheilk. Leipzig 36 1908 (151–160). 210

Eiffe, O. Edm. Kreuzung von Polarhund und Dingo. Zool. Beob. Frankfurt a. M. 50 1909 (312 313). 211

Ekman, Sven. Über die Artselbständigkeit des Lemmus lemmus (Linné) gegenüber Lemmus obensis (Brants). Naturwissenschaftl. Untersuch. des Sarekgebirges in Schwedisch-Lappland geleitet von Dr. Axel Hamberg 4 Lief 2 Stockholm 1908 (125-132). 212

†Elbert. Ucber scine Urmensch-Expedition auf Java. Bonn SitzBer. Ges. Natk. 1908 1909 med. natw. Ges. Münster (51-53), 213

Elliot, D. G. Descriptions of apparently new species and subspecies of *Cebus*, with remarks on the nomenclature of Linnæus's *Simia apella* and *Simia capucina*. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (227-231).

Elliot, D. G. Descriptions of apparently new species and subspecies of Monkeys of the genus Callicebus, Lagothrix, Papio, Pithecus, Cercopithecus, Erythrocebus, and Presbytis Ann. Mag. Nat. Hist. London ser. 8 4 1909 (244-274).

Elliot, D. G. Descriptions of new species of Monkeys of the genera Cercopithecus and Papio. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (304-306).

Elliot, D. G. On Simia sphinx, Linneus. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (417 418). 217

Elze, Curt. Zu den "Bemerkungen über den Haeekel-Maurer'sehen Bärenembryo mit Staehelanlagen" von K. Toldt jun. Anat. Anz. Jena 34 1909 (568-572).

[Emeljanov, I. V.] Емельяновъ, Н. В. Сусликъ, его вредоносная д'вятельность и пріемы борьбы съ нимъ. [Der Ziesel, seine schädliche Tätigkeit und die Mittel ihn zu bekämpfen.] Južn.-russ. selisk.-ehoz. gazeta Charikov 11 1909 (7-8).

Evans, G. H. Do animals die a natural death? Bombay J. Nat. Hist. Soc. 19 1909 (273–276). 220

Ewart, J. C. The possible ancestors of the Horses living under domestication. London Proc. R. Soc. ser. B. 81 1909 (392-397). 221

Faber, F. C. Die Krankheiten und Parasiten des Kakabaumes. Berlin Arb. biol. Anst. 7 1909 (193-343). 222

Fambach. Geweihe und Gehörn: ein kritisches Referat. Zs. natw. Stuttgart 81 1909 (225-264). 223

Favaro, Giuseppe. Contributi allo studio dell'istologia comparata e dell'istogenesi delle pleure. Intern. Monatsehr. Anat. Leipzig 26 1909 (301-409) 3 Taf. 224

Fenton, L. The Kathiawar Lion. Bombay J. Nat. Hist. Soc. 19 1909 (4-15). 225

Fernandez, Miguel. Beiträge zur Embryologie der Gürteltiere. 1. Zur Keimblätterinversion und spezifischen Polyembryonie der Mulita (*Tatusia* hybrida, Desm.) Morph. Jahrb. Leipzig 39 1909 (302-333) 4 Taf. 226

Festa, E. Chirotteri e Insettivori. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia. Parte scientifica 1 Milano 1909 (75-88). 227

Festa, E. Rosicanti. Spedizione al Ruwenzori di S. A. R. il Principe L. Amedeo di Savoia. Parte scientifiea 1 Milano 1909 (111-138). 228

†Fiedler, Hermann. Ueber Säugetierreste aus Braunschweigischen Torfmooren nebst einem Beitrag zur Kenntnis der osteologischen Geschlechtscharaktere des Rindschädels. Berlin 1907 (v + 61) Taf. 229

Fischer, Emil. Zwölf sehwarze Wildkaninchen. Gera Jahresber. Ges. Natw. 51-52 1908-09 (115) 1910. 230

Fischer, H. Über funktionelle Anpassung am Fledermausmagen. Arch. ges. Physiol. Bonn 129 1909 (113–137).

Fisher, A. K. The economic value of Predaceous Birds and Mammals. Washington D.C. Yearbook U. S. Dept. Agric. 1908 (187-194) pls. i-iii 1909.

Forgeot, E. Sur quelques dispositions des ganglions hémolymphatiques des Ruminants. Paris C. R. ass. franç. avane. sei. 37 1908 (560-561) 1909. 233

Forrest, H. E. The origin of British Wild Cattle. Shrewsbury Trans. Caradoe F. Cl. 4 1909 (1a-10a) pls. iiia-iva. 233a

Forsius, R. Dubbel-embryo af Sus scrofa domestica. [Doppel-Embryo von Sus scrofa domestica.] Helsingfors Medd. Soe: Fauna et Fl. Fenn. 35 1909 (137 138).

Fortier, E. Note sur des Veaux monstrueux. Rouen Bul. soe. amis sei. nat. 42 1907 (23 24). 235

Franz, V. Das Auge von Orycteropus afer (Pallas). Jena Denksehr. med. Ges. 15 1909 (401-415) 2 Taf. 236

Frets, G. P. Ueber die Entwicklung der Wirbelsäule von Echidna hystrix. Tl 2. Morph. Jahrb. Leipzig 39 1909 (335-365).

Frets, G. P. Ueber den Plexus lumbo-saeralis, sein Verbreitungsgebiet und die Beziehungen zwischen Plexus und Wirbelsäule bei den Monotremen nebst vergleichend-myologisehen Bemerkungen. Morph. Jahrb. Leipzig 40 1909 (1-104). 238

Frets, G. P. Ueber die Varietäten der Wirbelsäule und ihre Erblichkeit. Anat. Anz. Jena 34 ErgH. 1909 (105–120).

Freudenberg, Franz. Ein weiterer Beitrag zur Tierpsyche, Hund. Psych. Stud. Leipzig 36 1909 (434-435). 240

Friedenthal, Hans. Haarparasiten und Haarbau als Hinweise auf Blutsverwandtschaft. Berlin SitzBer. Ges. Naturfor. Fr. 1909 (379–383). 241 Fritz, F. Über einen Sinnesapparat am Unterarm der Katze nebst Bemerkungen über den Bau der Sinus vagus. Zeits. wiss. Zool. Leipzig **92** 1909 (291– 305). **242**

Fritze, Ad. Nachtrag zum Katalog der Säugetiersammlung des Provinzial-Museums zu Hannover. Hannover Jahrb. ProvMus. 1908-1909 (87-94).

†Fritze, A. Die Montierung des Riesenhirsch-Skeletts im Provinzial-Museum zu Hannover. Hannover Jahrb. ProvMus. 1908–1909 (95). 244

Fuchs, H. Ueber die Entwickelung einiger Deckknochen (Vomer, Pterygoid, Maxillare) bei Säugetieren (und ihr Verhältnis zum Knorpelskelette). Anat. Anz. Jena 34 ErgH. 1909 (85-104) Taf. 245

Funccius, Theodor. Der Prothorax der Vögel und Säuger. Morph. Jahrb. Leipzig 39 1909 (370-445) 3 Taf. 246

Fuschlberger, Hans. Der "Brunftschrei" des Rehboekes. Wild u. Hund Berlin 15 1909 (517–519). 247

Gadeau de Kerville, Henri. Nouvelles expériences sur les Lapins domestiques privés d'une conque auriculaire. Paris Bul. soe. zool. 34 1909 (57-59). 248

Gadeau de Kerville, H. Description et figuration de deux Mammifères monstrueux (Agneau synote, Chevreau apodyme). Rouen Bul. soc. amis sci. nat. 42 1907 (295-297). 249

Gaillard, C. vide Lortet, E.

Gates, R. R. A litter of hybrid Dogs. Science New York N.Y. ser. 2 29 1909 (744-747). 250

Gerhardt, Ulrich. Ueber das Vorkommen eines Penis- und Clitorisknochens bei Hylobatiden. Anat. Anz. Jena 35 1909 (353-358). 251

Gerhardt, U. Das Kaninehen; zugleich eine Einführung in die Organisation der Säugetiere. Mit e. Vorwort v. H. E. Ziegler. (Monographien einheimischer Tiere. Hrsg. v. H. E. Ziegler u. R. Woltereek, 2.) Leipzig 1909 (vi + 307) Taf.

Geyr von Schweppenburg, H. Freiherr vide Roi, O. le. Ghidini, Angelo. I Myoxidi tieinesi. Loearno Boll. Soc. tic. Se. Nat. 2 1905 (50-56). 253

Ghidini, A. Ein Steinboek aus den rhätisehen Alpen, Diana Genève 1909 (68). 254

Giard, A. Conflit d'instincts chez une Musaraigne. Feuille jeunes natural. Paris 38 1908 (163). 255

†Gidley, James Williams. Notes on the fossil Mammalian genus *Ptilodus*. Washington D.C. Smithsonian. Inst. Nation. Mus. Proc. **36** 1909 (611–626) pl. lxx. **256**

†Gilbert, J. Z. Ancestors of our Whales. [Description of fossils found at Los Angeles, Cal.] Los Angeles Bull. Soc. Cal. Acad. Sei. 7 1908 (20–22) pl. 257

Girard, Pierre. Influence de la domestication sur le poids de l'encéphale. Bul. inst. psych. internat. Paris 8 1908 (340-344). 258

†Girardot, Albert. La faune préhistorique de la Franche - Comté. Besançon Mém. Soe. Ém. Doubs. ser. 8 1 1906 (263–329) 1907. 259

†Girtanner. Riesenhirsch und Riesenälk. St. Gallen Jahrb. Natw. Ges. 1906 (32–35) 1907. 260

Giuffrida-Ruggeri, V. Die Entdeckungen Florentino Ameghinos und der Ursprung des Menschen. Globus Braunschweig 94 1908 (21-26). 261

†Glauert, Ludwig. A new species of Sthenurus. London Quart. Journ. Geol. Soc. 65 1909 (462) abstr. 262

Göppert, E. Ueber die Entwicklung von Varietäten im Arteriensystem. Untersuehungen an der Vordergliedmasse der weissen Maus. Morph. Jahrb. Leipzig 40 1909 (208-410) 7 Taf.

Goldman, E. A. Five new Woodrats of the genus *Neotoma* from Mexico. Washington D.C. Proe. Biol. Soc. 22 1909 (139-140).

Goldman, E. A. vide Nelson, E. W.

Goldschmidt, Waldemar. Ueber das Fehlen der Pleurahöhle beim afrikanisehen Elefanten. Morph. Jahrb. Leipzig 40 1909 (265–267). 265 Gorjanovič-Kranberger. Der vorvlere Unterkieferabschnitt des altdiluvialen Mensehen in seinem genetischen
Verhältniss zum Unterkiefer des rezenten Mensehen und dem der Anthropoiden. Zs. indukt. Abstammgslehre
Berlin 1 1909 (411-439). 266

Gourdon, Maurice. Sur le capture d'un Neomys milleri dans les Montagnes de Bagnières-de-Luchon. Nantes Bull. Soc. Sci. Nat. sér. 2 9 1909 (155-156).

†Granger, Walter. Faunal horizons of the Washakie formation of southern Wyoming. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (13-23) pls. ii-vi. 267a

Grevé, Karl. Einige Gedanken in Anlass des Artikels "Ueber das Aussterben und Zurückweiehen mitteleuropäischer Wildarten" von E. Freiherr von Kapherr. N. Balt. Weidm.-blt. Riga 4 1908 (433-437).

Grevé, K. Der Wisent (Bison bonasus). N. Balt. Weidm.-blt. Riga 5 1909 (361-363). 269

Grevé, K. Säugetiere Kur - Liv-Estlands. Ein Beitrag zur Heimatskunde. Riga 1909 (1-183) 1 Taf. 270

Grevé, K. Wale an der livländisehen Küste. N. Balt. Weidm. blt. Riga 5 1909 (375 420). 271

Grevé, K. Was bleibt übrig? N. Balt. Weidm.-blt. Riga 5 1909 (409-413).

Grevé, K. Russische und schwedische Bären. Zool. Beob. Frankfurt a. M. 53 1909 (328-333). 273

Grevé, K. Bilden unsere Ostseeprovinzen ein besonderes Faunengebiet? Riga Korr.-blt. Naturf. Ver. 52 1909 (197-206). 274

Grieg, J. A. Birkemusen, ny for [Sicista subtilis, neu für Norwegen.] Bergen Naturen 33 275

Grieg, J. A. Hjortens udbredelse i Norge i forhistorisk tid. [Die Verbreitung des Hirsches in Norwegen in vorgesehiehtlieher Zeit.] Bergen Naturen 33 1909 (65-78). 276

Grinnell, Joseph and others. Birds and Mammals of the 1907 Alexander expedition to South-eastern Alaska.

(N-11091 f)

Berkeley Univ. Cal. Pub. Zool. 5 1909 (171-264) pl. xxv. 277

Grote, Hermann. Aufzuehtsversuehe und Aufzuehten ostafrikanischer Säuger. I. Zool. Beob. Frankfurt a. M. 50 1909 (138-142 262-265). 278

Gudernatsch, I. F. Zur Anatomie und Histologie des Verdauungstraktes der Sirenia: ii. Die Zunge von Manatus latirostris, Harl. Morph. Jahrb. Leipzig 40 1909 (184–194) Taf. 279

Guieysse-Pelissier, A. Etude d'un ovocyte de Vesperugo abramus devenu polynueléé par immigration de noyaux étrangers. Paris C. R. soc. biol. 67 1909 (692-694). 280

Guldberg, Gustav. Eine Missbildung bei den Cetaeeen. Kristiania Skr. Vid. Selsk. 1908 No. 12 (1-7) Taf. 281

Gunn, Lieut.-Col. W. D. Cattle of Southern India. Madras Bull. Dept. Agric. 3 No. 60 1909 (1-65). 282

[Gurvič, Aleksandr.] Гурвичъ, Александръ. Атласъ и очеркъ эмбріологіи позвоночныхъ и человѣка. Дополн. нерев. съ нѣмецк. [Atlas und Grundriss der Embryologie der Wirbelthiere und des Mensehen. Vervollst. Uebers. a. d. deutseh. des gleiehen Autors.] St. Peterburg 1909 (2 + 340).

Haberfeld, Walther. Zur Histologie des Hinterlappens der Hypophyse. Anat. Anz. Jena 35 1909 (98-104). 284

Hachet-Souplet, P. Les Chiens sauveteurs et la zoopédie. Bul. inst. psych. internat. Paris 7 1907 (451-460). 285

[Haeckel, Ernst.] Геккель, Э. Происхождение человъка. Докладъ прочит. на 4. междун... Конгр. зоол. въ Комбриджъ. Перев. съ 10-го изд. I. Г. Анкинази. [Ueber unsere gegenwärtigen Kenntnisse vom Ursprung des Menschen. Vortr., geh. auf d. 4-ten intern. Zoologenkongress zu Cambridge.] St. Peterburg 1909 (1-80). 286

Hafner, Bruno. Die Entwicklung der Lage.und Anordnung des Schweineund Wiederkäuerdarmes. Arch. Entw-Mech. Leipzig 28 1909 (49-103) 2 Taf.

Hagedoorn, Arend L. Inheritance of yellow colour in Rodents. Berkeley

Cal. Univ. Cal. Pub. Physiol. 3 1909 (95–99). 287a

Hagenbeck, C. Beasts and Men, being Carl Hagenbeck's Experiences for Half a Century among Wild Animals. [Translation of work quoted in Record for 1908, No. 332]. London 1909 (xiii + 299).

†Hagmann, Gottfried. Ueber diluviale Murmeltiere aus dem Rheingebiet und ihre Beziehungen zu den lebenden Murmeltieren Europas. Strassburg Mitt. geol. Landesanst. 6 1909 (369-394) 2 Taf.

Halász, Ármin. Hermaphroditismus esikóban. [Hermaphroditismus bei einem Füllen.] Állatorv. L. Budapest 32 1909 (102–103). 290

Haldane, R. C. Whaling in Scotland for 1908. Ann. Scot. Nat. Hist. Edinburgh 70 1909 (65-69). 291

Haller, B. Die phyletische Stellung der Grosshirnrinde der Insektivoren. Jena Jenaische Zs. 45 1909 (279-297) pl. xxvi. 292

Haller, B. Die phyletische Entfaltung der Sinnesorgane der Säugetierzunge. Arch. mikr. Anat. Bonn 74 1909 (368-467) 3 Taf. 293

Haller, B. Über die Hypophyse niederer Placentalier und den Saccus vasculosus der urodelen Amphibien. Arch. mikr. Anat. Bonn 74 1909 (812– 843) 2 Taf. 294

Hamann, Otto. Die Abstammung des Mensehen. Eine Darstellung der neueren Ergebnisse der Anthropologie. Godesberg-Bonn 1909 (1-64) 4 Taf. 285

Hamelin, L. vide Courty, G.

Hári, Paul. Beitrag zur Kenntnis der ehemischen Wärmeregulation der Säugetiere. Arch. ges. Physiol. Bonn 130 1909 (90-111). 293

Hári, P. Der respiratorische Gaswechsel der winterschlafenden Fledermaus. Arch. ges. Physiol. Bonn 130 1909 (112–133). 297

†Harle, Edouard et Stehlin, H. G. Une nouvelle fauna de Mammifères des Phosphorites du Quercy. Paris Bull. soc. géol. France sér. 4 9 1909 (39-52).

Hartig, Rolf. Vergleichende Untersuchungen über die Lippen- und Backendrüsen der Haussäugetiere und des Affen. Leipzig 1907 (iv + 79).

Harvier, P. et Morel, L. Topographie du tissu parathyroïdien chez le Chat. Paris C. R. soc. biol. 66 1909 (837-839).

Hase, P. und E. von. Was erzwang den dauernd aufrechten Gang der Menschen? Prometheus Berlin 21 1909 (145-150). 301

Hasse, C. Fragen und Probleme auf dem Gebiete der Anatomie und Physiologie der Lymphwege. Arch. Anat. Physiol. Leipzig Anat. Abt. 1909 (327-330).

†Hasse, Georges. Un Marsupial dans l'argile de Boom. Bruxelles Ann. Soc. Zool. et Malac. Belgique 44 1909 (77 78). 302

†Haupt, O. Elephas primigenius, Bl., aus den Diluvial-Schottern von Mainflingen a. M. Darmstadt Notizbl. Ver. Erd. K. ser. 4 29 1908 (95-104) pl. iv. 303

†Hay, Oliver P. The geological and geographical distribution of some Pleistocene Mammals. Science New York N.Y. ser. 2 30 1909 (890-893). 303a

Heck, L. Über die erste Echidna-Züchtung im Berliner Zoologischen Garten. Verh. Ges. D. Natf. Leipzig 80 2 1909 (197 198).

Heek, I. Lebende Bilder aus dem Reiche der Tiere: Augenblieksaufnahmen nach dem lebenden Tierbestande des Berliner Zoologischen Gartens. Leipzig 1909 (1–200). 305

Heilborn, Edwin. Fuchs, Schakal und Wolf. Vergleichende Morphologie des Schädels. Bern 1905 (1-46) 3 Taf. 306.

Heinrich, G. Die Entwicklung des Zahnbeins bei Säugetieren. Arch. mikr. Anat. Bonn 74 1909 (781-811) 2 Taf. 307

Held, Hans. Untersuchungen über den feineren Bau der Ohrlabyrinthes der Wirbeltiere. Leipzig Abh. Ges. Wiss. 31 1909 (193–294) 18 Taf. 308-

Heller, Edmund. A new Rodent of the genus *Georychus*. Washington D.C. Smithson. Miscell. Coll. **52** 1909 (469 470) pl. lv: **309** Heller, E. Two new Rodents from British East Africa. Washington D.C. Smithson. Miscell. Coll. 52 1109 (471 472) pl. lvi. 310

Heller, E. Mammals of the 1907 Alexander Expedition to South-eastern Alaska. Berkeley Calif. Univ. Calif. Publ. Zool. 5 1909 (245-264). 311

Heller, O. Die neusten Forschungen auf dem Gebiete der Hundswut. Bern. Mitt. Natf. Ges. 1905 (xxvii-xxxvi). 312

Henneberg, Bruno. Ueber die Bedeutung der Ohrmuschel. Anat. Anz. Jena 34 Erg H. 1909 (121-122) und Anat. Hefte Wiesbaden Abt. 1 40 1909 (95-147) 2 Taf.

Hennings, Curt. Die Säugetiere Deutschlands, ihr Bau, ihre Lebensweise und ihre wirtschaftliche Bedeutung. Leipzig 1909 (1-174). 314

Hennings, C. Mammalia für 1904. Arch. Natg. Berlin 71 2 Hft. 1 1909 (1-132). 315

Hepburn, David. Scottish Antarctic Expedition; Observations on the anatomy of the Weddell Seal (Leptonychotes weddelli). Edinburgh Tr. R. Soc. 47 1909 (57-63) pl. 316

†Hermann, Rudolf. Die Rehgehörne der geologisch-paläontologischen Sammlung des Westpreussischen Provinzial-Museums in Danzig; mit besonderer Berücksichtigung hyperplastiseher und abnormér Biklungen. Danzig Schrift. Nat. Ges. ser. 2 12 1909 (81-101) pl. viii. 317

†Hescheler, Karl. Der Riesenhirsch. Neujahrsbl. Nat. Ges. Zürich 1909 3 (1-41) 2 Taf.

Hescheler, K. Vorfahrenreihe des Pferdes. St. Gallen Jahrb. Natw. Ges. 1906 1907 (29-32). 319

Heuer, George. The development of the lymphatics in the small intestine of the Pig. Amer. J. Anat. Fhiladelphia Pa. 9 1909 (95-118). 320

Heyne, Hugo. Beiträge zur Anatomie des Ciliarmuskels bei Katze, Hund und Kaninchen. Jena 1908 (1-40).

Hilzheimer, Max. Neigen inselbewohnende Säugetiere zu einer Abnahme der Körpergrösse? Arch. Rass. u. Gesell. Biol. Leipzig 3 1909 (305-321).

(N 11091 f)

†Hilzheimer, M. Wisent und Ur im K. Naturalienkabinett zu Stuttgart. Mitt. k. Natkab. Stuttgart 1909 (243–209) pls. vi-vii. 323

Hilzheimer, M. Was ist Equus equiferus Pallas? Natw. Wochenschr. Jena 24 1909 (810-812). 324

†Hilzheimer, M. Wie hat das Mammut ausgesehen? Aus d. Natur Stuttgart 5 1909 (455-463). 325

†Hinton, Martin A. C. On the fossil Hare of the ossiferous fissures of Ightham, Kent, and on the recent Hare of the variabilis group. Dublin Sci.: Proc. R. Soc. ser. 2 12 1909 (225-265) pl. xv. 326

Höcke, M. Beiträge zur vergleichenden Histologie des Pankreas der wichtigsten Haussäugetiere (Hund, Kätze, Schwein, Schaf, Ziege, Rind, Pferd) mit besonderer Berücksichtigung des "Ausführenden Apparates" und der Pankreasinseln. Zürich 1907 (1–126).

†Hoffmann, A. Säugetierreste aus einigen Braunkohlenablagerungen Bosniens und der Herzewina. Sarajevo-Wiss. Mitt. Bosn. Hereeg. 11 1909 (558-571). 327a

Holding, R. E. The Horns of the St. Kilda Four-horned Sheep. London Proc. Zool. Soc. 1909 (98-100). 328

Holl, M. Ueber Furehen und Windungen der Scheitel-Hinterhauptgegend an den Gehirnen der Affen der neuen Welt. Wien SitzBer. Ak. Wiss. Abt. 3 117 1908 (9-90) 6 Taf. 329

Holl, M. Über bisher unbekannte Bildungen im hintersten Inselgebiet des Menschen- und Affenhirns. Wien Sitzber. Ak. Wiss. Abt. 3 118 1909 (129-178) 4 pls. 330

Holl, M. Die Entwicklung der Bogenwindung an der hinteren Insel des Menschen- und Affenhirns. Wien SitzBer. Ak. Wiss. 118 Abt. 3 1909 (265-371) 2 Taf. 331

Hollister, N. Two new Bats from the South-western United States. Washington D.C. Proe. Biol. Soc. 22 1909 (43 44).

Honda, Yugoro. Gehörorgan des Hundes. Erlangen 1909 (1-20). 332a

Hooper, David. Fat of the Himalayan Bear, Ursus torquatus, Wagner.

Calcutta J. & P. As. Soc. Beng. 4 1908 (33 34). 332b

Hornaday, W. T. Fortpflanzung der Schneeziege (Capra montana) im Zoologischen Garten zu New York. Zool. Beob. Frankfurt a. M. 59 1909 (20-22).

Howell, Arthur H. Description of a new Bat from Nickajack Cave, Tennessee. Washington D.C. Proc. Biol. Soc. 22 1909 (45-48).

Howell, A. H. Notes on the distribution of certain Mammals in the South-eastern United States. Washington D.C. Proc. Biol. Soc. 22 1909 (55-68).

Huber, Friedrich. Der Ductus thoracicus von Pferd, Rind, Hund und Schwein. Dresden 1909 (1-66) 4 Taf. 23 cm.

Hubrecht, A. A. W. Die Säugetierontogenese in ihrer Bedeutung für die Phylogenie der Wirbeltiere. Jena 1909 (v + 247).

Inouye, Michio. Ucher die Harnkanälchen des Rindes und des Tümmlers. In: Untersuchungen über Bau und Entwickelung der Niere, hrsg. von K. Peter. Jena 1909 1 (361-448) 1 Taf. 338

Ivanov, Jordan. Contribution à l'étude les glandules parathyroïdes chez les Rongeurs (Cobaye et Mulot). Genève 1905 (1-30) pl. 339

Jääskeläinen, Viljo. Lisiä naalitietoihin Karjalasta. [Funde von Canis lagopus in Karelen.] Luonnon Ystävä Helsingfors 13 1909 (118). 340

†Jackson, J. Wilfrid. Notes on the bone caves of Grange and district. Lancashire Nat. Darwen ser. 2 2 1909 (45-46 85-90).

†Jackson, J. W. On the discovery of the remains of Lemmings in Dog Holes, Warton Crag. Lancashire Nat. Darwen ser. 2 2 1909 (227-229). 342

Jaeger, Alfred. Ueber die Umwandlung von Leberzellbalken in selbständige Gallencapillaren. Arch. Entw-Mech. Leipzig 28 1909 (35-42). 343

Jackel, O. Entgegnung an Herrn G. Steinmann. [Betr. Abstammung der Säuger.] Centralbl. Min. Stuttgart 1909 (706-709). 344 [Jakimov, V. L. und Kohl, Nina.] Якимовъ, В. Л. и Коль, Нина. Къвопросу о составъ крови лошадей различныхъ породъ. [Zur Frage über die Zusammensetzung des Blutes bei Pferden verschiedener Rassen.] Archiv. veterin. nauk St. Peterburg 37 1907 (563-589); Monatshefte Tierheilk. Stuttgart 21 1909 (116-146). 345

†Jameson, H. Lyster. On a subfossil Hare from a eave-deposit at Godwan River. Pretoria Ann. Transvaal Mus. 1 1909 (195 196). 346

Jameson, H. L. On a collection of Mammals from South Africa. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (455-474). 347

Jammes, L. et Durand, S. Sur les modifications des cavités séreuses chez quelques Mammifères (Eléphant d'Asie et Dauphin commun). Toulouse Bul. soe. hist. nat. 41 1908 (xviii-xx). 348

Jensen, Adolf S. Okapien og Guden Set. The Oeapi and the deity Set. [The head of the ancient Egyptian deity Set is not that of Ocapia but of Camelopardalis.] København Maanedsmagasinet 1909 (825-830). 349

Jentink, F. A. Beiträge zur Kenntnis der Fauna von Süd-Afrika; Ergebnisse einer Reise von Prof. Max Weber im Jahre 1894; Mammalia.-Zool. Jahrb.-Systemat. Jena 28 1909 (239-262).

†Jochelson, Waldemar. Some notes on the traditions of the natives of North-eastern Siberia about the Mammoth. Amer. Nat. Lancaster Pa. 43 1909 (48-50).

Johnson, H. Lindsay. Ein Versuch zur Klassifizierung der Säugetiere, Reptilien und Amphibien in Familien und Ordnungen nach den opthalmoskopischen Erscheinungen des Augenhintergrundes und dem während des Lebens auftretenden Grade der Exophorie. Berlin SitzBer. Ges. Naturf. Fr. 1809 (249–265).

Jolly, J. Variations de l'hémoglobine, du nombre des globules rouges et de la valeur globulaire aux différentes périodes de la vie chez le Rat blanc. Paris C. R. soc. biol. 66 1909 (136-139).

Jolly, J. Sur quelques points de la morphologie du sang étudiés par l'observation de la circulation dans l'aile de la Chauve-souris. Arch. anat. microsc. Paris 11 1907 (94-109). 254

Jolly, J. et Carrau, A. Sur le développement des ganglions lymphatiques des Mammifères. Paris C. R. soc. biol. 67 1909 (640-643).

Jordan, H. E. The shape of the red blood-corpuseles. Anat. Anz. Jena 34 1909 (406-412). 253

Joris, H. De l'existence d'une glande infundibulifère chez les Mammifères. Bibliogr. anat. Nancy 17 1908 (282-288). E53a

Joseph, H. Histologische Beobachtungen am Anthropoidenovarium. Wien Arb. Zool. Inst. Univ. 18 1909 (83-112) Taf. 257

Jubin, Léon. La fourbure du pied du Cheval. Lyon 1908 (1-68). 353

Julitz, Curt. Osteologie und Myologie der Extremitäten und des Wickelsehwanzes vom Wickelbären, Cercoleptes caudivolvulus, mit besonderer Berücksichtigung der Anpassungserscheinungen an das Baumleben. Arch. Natg. Berlin 75 1909 Bd 1 (143–188) 6 Taf.

[Jurinskij, Т.] Юринскій, Т. Обзоръ весеннихъ фенологическихъ явленій природы въ Восточной Сибири въ 1905 и 1906 годахъ. [Ucbersicht der phenologischen Frühjahrserscheinungen in Ostsibirien in den Jahren 1905 и. 1906.] Irkutsk Izv. Vost. Sib. otd. russ. geogr. Obšč. 38 1907 (32–63) 1909.

Käppeli, J. Beiträge zur Anatomie und Physiologie der Ovarien von wildlebenden und gezähmten Wiederkäuern und Schweinen. Landw. Jahrb. Schweiz. Bern. 22 1908 (53-129) 6 Taf. 361

[Kaliuš, A. I.] Калюнгь, А. I. Maccoboe переселеніе бѣлокть. [Eine Massenwanderung von Eichhörnehen.] Naša ochota St. Peterburg 3 1909 11 (114). 362

[Kagčenko, N. Th.] Кащенко, Н. Ө. Списокъ летучихъ мышей, собранныхъ В. Л. Біанки въ Петербургской и Тверской губерніяхъ. [Liste des Chauve-souris trouvées par V. L. Bianchi dans les gouv. de St. Pétersbourg et de Tver.] St. Peterburg Ann. mus. zool. 14 1909 (vi vii). 363

Kazzander, Julius. Zur Biologie der Talpa europaea. Anat. Anz. Jena 34 1909 (394-399). 364

Keen, J. H. Caribou in the Queen Charlotte Islands. Ottawa Nat. 22 1909 (260). 365

†Keller, C. Die ausgestorbene Fauna von Kreta und ihre Beziehungen zur Minotaurus-Sage. Zürich Vicrteljahrsche Nat. Ges. 54 1909 (424-435).

Keller, C. Ein Haustierrelikt auf den Balearen. Aus der Natur Leipzig 4 1909 (524-531). 367

Keller, C. Gibt es einen Hund? Wissen und Leben Zürich 1 1907 (33-40). 368

Keller, Otto. Die Antike Thierwelt. Leipzig 1909 (xii + 434) 3 pls.

[Kercelli, Sərgĕi.] Керцелли, С. Матеріалы для наученія олепеводства въ Большеземельской тундрі Архангельской губерпін. [Beiträge zum Studium der Renntierzucht in der Tundra Bolschaja Zemlja, Gouv. Archangelsk.] Vorl. Mitt. Arch. veterin. nauk St. Peterburg 39 1909 (817–935).

Kermauner, F. Pseudohermaphroditismus masculinus beim Schwein.
Monatschr. Geburtsh. Berlin 27 1908 (375-377).

Kershaw, J. A. Notes on the Hairynosed Wombat, *Phascolomys latifrons*, Owen. Melbourne Victorian Nat. 26 1909 (118 119).

Kinnear, N. B. Measurements of some of the horns in the collection of the Bombay Natural History Society. Bombay J. Nat. Hist. Soc. 19 1909 (184-209).

Kirchner, A. Die vordere Epiphyse und der untere Tuberositaskern der Tibia beim Menschen und in der Säugetierreihe. Die Tuberositas tibiae des Menschen. Arch. Anat. Physiol. Leipzig Anat. Abt. 1908 (237–320). 374

Kirkham, W. B. Maturation of the egg of the White Mouse. New Haven Conn. Trans. Acad. Arts Sci. 13 1909 (65-87).

Klaatsch, Hermann. Die neuesten Ergebnisse der Paläontologie des Menschen und ihre Bedeutung für das Abstammungsproblem. Zs. Ethn. Berlin 41 1909 (537-584 683) 4 Taf. 375

Klinkhardt, Werner. Das Kaninchen: Zeigleich eine Einführung in die Organisation der Säugetiere. 2 Leipzig 1909 (vi + 307). 376

Kloss, C. Boden. The Primates, Carnivores, and Ungulates of the Peninsular Region. Singapore J. Straits Br. R. Asiat. Soc. 1909 No. 33 (1-47).

†Knotek. Die Reste des Rotund Damwildes in Griechenland und den anderen Balkanländern. Wild u. Hund Berlin 15 1909 (581–584). 378

Knottnerus-Meyer, Theodor. Geburt eines Zwillingspaares von Hamadryas arabicus, Thos. Berlin Sitzber. Ges. Naturf. Fr. 1909 (84). 379

Knottnerus-Meyer, T. Mammalia für 1906. [Jahresbericht.] Arch. Natg. Berlin **73** 2 1907 (1-166) 1909.

Koch, J. v. Ueber die Fortpflanzung des Alpen-Murmeltieres. Jagd u. Wild Wien 1 1909 (113 114).

König, Clemens. Das gemeine Schnabeltier, Ornithorhynchus anatinus. D. Jägerztg Neudamm 54 1909 (11-14 28-30 43-45 60-62 78-79 90-92 108-110 125-128). 382

König, C. Die Ausrüstung des Sehnabeltieres. Aus d. Natur Stuttgart 4 1909 (689-696). 383

Kohl, Nina vide Jakimov, V. L.

[Koiranskij, М.] Койранскій, М. Гермафродитизмъ у козы. [Hermaphroditismus bei einer Ziege.] Veterin. žiznĭ Moskva 1909 (277). 384

Kolbe, H. Die Südpolarkontinenttheorie nebst Bemerkungen über tiergeographische Verhältnisse auf der Südhemisphäre. Naturwis. Woehenschr. ser. 2 8 1909 (449-454).

Kolster, Rud. Weitere Beiträge zur Kenntnis der Embryotrophe. IV. Zur Kenntnis des Chorionepithels. Anat. Hefte Wiesbaden Abt. 1 40 1909 (149– 178) 4 Taf.

Korff, K. vide Ebner, V.

[Kovalevskij, S. N.] Ковалевскій, С. Н. Проблема половъ на основаніи опытовъ произвольнаго вліянія на полъ зародына млекопитающихъ. Предварительное сообщеніе. [Das

Sexualitätsproblem auf Grund von Versuchen willkürlicher Einwirkung auf den Geschlecht des Embryos bei Säugetieren. Vorl. Mitt.] Charikov C.-r. Inst. véterin 9 2 1909 (1-45). 387

†Kowarzik, R. Der Mosehusoelis im Diluvium Europas und Asiens. Zool. Anz. Leipzig 33 1908 (857-861).

†Kowarzik, R. Der Mosehusochs im Diluvium von Europa und Asia. Brünn Verh. nat. Ver. 47 1908 (44-59).

Kowarzik, R. Resultate einer zusammenfassenden Bearbeitung der Monotremen. Zool. Anz. Leipzig 35 1909 (213-215).

[Koževnikov, G.] Кожевниковъ, Г. Черный заяцъ. [Ein schwarzer Hase.] Ochotn. věst. Moskva 9 1909 (134).

[Kracht-Palějev, P. N.] Крахты-Палъевъ, П. Н. Матеріалы къ ученію о передней брыжечной артеріи (Arteria mesenterica anterior s. superior hom.) у доманнихъ млекопитающихъ кливотныхъ. [Beiträge zur Lehre von der vorderen Mesenterialarterie (Arteria mesenterica anterior s. superior Hom.) bei den Haus-Säugetieren.] Aus dem anat. Kabinet des Veterinär. Inst. in Charkow. Charikov 1908 (1-44) 4 Taf. und Charikov C.-r. Inst. véter. 9 3 1909 (1-44) 4 Taf.

V Kraemer, H. Die Gründe der Entstehung rassencharakteristischer Massunterschiede an Knochens besonders am Metacarpus des Pferdes. Bern Mitt. Natf. Ges. 1906 (vii-xi).

[Kryžanovskij.]Крыжановскій,Весьма рѣдкое уродство у теленка.[Eine sehr seltene Misbildung des[Ealbes.]Mess. med. vet. soe.St.Peterburg 21 1909 (463-464).394

Kükenthal, W. Untersuchungen an Walen. Jena Jenaisch. Zeits. 45 1909 (545-588) pls. xlii-xlix. 395

Kürchhoff, D. Mitteilungen über die Rassen der wichtigsten Haustiere in Afrika. I. Das Pferd. II. Das Rind. Tropenpflanzer Berlin 11 1907 (550-559 630-636); 12 1908 (129-135 328-335 524-531).

Kürchhoff, D. Mitteilungen über die Rassen der wiehtigsten Haustiere in Afrika: 3 Schafe, Ziegen, Esel. Tropenpflanzer Berlin 13 1909 (222-228). 397

[Kuličickij, N. K.] Кульчицкій, Н. K. Glandula lacrimalia praeparotidea у ибкоторыхъ грызуновъ. [Ueber die Glandula lacrimalis praeparotidea bei einigen Nagern.] Moskva Dnevn. xii. Sjězda russ. jest. vrač. 1909—1910 (179–181).

Kunze, Fritz. Einige Notizen über die Säugetier- und Vogelfauna von Deutsch-Südwestafrika. Gesammelt 1906-1907. Zool. Beob. Frankfurt a. M. 50 1909 (11-20).

Kwietnieweki, Casimir. Zur Entwickelung der Wolffschen und Müllerschen Gänge bei den Nagetieren. Anat. Anz. Jena 35 1909 (240-256).

La Baume, Wolfgang vide Baume, Wolfgang La.

†Lalanne, G. Glouton gravé sur bois de Renne. Bordeaux Actes Soc. Linn. 62 1908 (381 382). 401

Lane, H. H. Some observations on the habits and placentation of *Tatu* novemcinctum. Norman Ok. Univ. Oklahoma Research Bull. 1909 (1-18).

Lane, H. H. A suggested classification of Edentates. Norman Ok. Univ. Oklahoma Research Bull. 1909 (21–27).

Lantz, David E. Coyotes in their economic relations. Washington D.C. Dept. Agric. Biol. Surv. Bull. No. 20 1905 (1-28).

Lantz, D. E. The Brown Rat in the United States. Washington D.C. Dep. Agric. Biol. Surv. Bull. No. 33 1909 (1-55).

Lantz, D. E. Use of poisons for destroying noxious species. Washington D.C. Yearbook U. S. Dept. Agric. 1908 (421-432) 1909.

Laville, A. Mustela vison dans la Manche. Feuille jeunes natural. Paris 39 1909 (250). 407

Leboucq, Georges. Contribution à l'étude de l'histogenèse de la rétine chez les Mammifères. Arch. anat. microsc. Paris 10 1909 (555-605) pls. xvii-xix. 408

Lécaillon, A. Sur la structure qu'acquiert le canalicule séminifère de la Taupe commune (Talpa europaea)

après la période de reproduction. Paris C. R. Acad. sci. 148 1909 (664-666). 409

Lécaillon, A. Sur les cellules interstitielles du testieule de la Taupe (Talpa europaea, L.) considéré en dehors de la période de reproduction. Paris C. R. Soc. Biol. 66 1909 (599-601).

Lecaplain vide Barrier.

Leche, Wilhelm. Zur Frage nach der stammesgeschichtlichen Bedeutung des Milchgebisses bei den Säugetieren: i. Mitteilung. Zool. Jahrb. Abt. f. Syst. Jena 28 1909 (449-456) pl. ix. 411

Le Hello, P. Actions musculaires locomotrices. J. anat. physiol. Paris 44 1908 (65-80). 412

Lelièvre, A. et Retterer, E. Structure des hématies des Mammifères adultes. Paris C. R. soc. biol. 66 1909 (67-71).

Lelièvre, A. et Retterer, E. Structure du myocarde chez les Mammifères. Paris C. R. soc. biol. 66 1909 (811-814).

Lelièvre, A. vide Retterer, E.

Le Souëf, W. H. Dudley vide Lucas, A. H. S.

Letacq, A. L. Note sur un Vison tué a Boissy-Maugis (Orne). Rouen Bul. Soc. Amis. Sci. Nat. 44 1909 (242 243).

Levi, Giuseppe. Contributi alla conoscenza del condrocranio cerebrale dei Mammiferi. Monit. zool. ital. Firenze 20 1909 (159-174) tav. 416

Levi, G. Studî anatomici ed embriologici sull'osso occipitale. Archivio ital. Anat. Embriol. Firenze 7 1908 (615-696) 7 tav. 1909. 417

[Lialin, A. N.] Лялинъ, А. Н. О пропорцін органовъ медвѣдъ. [Ueber die Proportionen der. Organe beim Bärent.] Ochotn. gazeta Moskva 37 1909 (42).

Lier, Eduard Henri Benjamin van. Over de interfibrillaire stof in de lederhuid bij zoogdieren. [Ueber die interfibrilläre Substanz in der Lederhaut bei Säugetieren.] Utrecht 1909 (1-86).

Little, C. C. vide Castle, W. E.

[Liubeneckij, G. A.] Любенецкій, Г. А. Къ вопросу о связи между предсердіями и желудочками сердца млекопитающихъ. [Zur Frage über den Zusammenhang zwischen den Vorhöfen und den Kammern des Säugetierherzens.] Kazanĭ Zap. Univ. 76 1909 (1–131) 6 Taf. 420

[Lĭubeneckij, G. А.] Любепецкій, Г. А. Къ вопросу о связи между предсердіями и желудочками сердца млекопитающихъ. Изъ физіологической лаборат. И Казанскаго Унив. [Zur Frage über den Zusammenhang zwischen den Vorhöfen und den Kammern des Säugetierherzens. Aus dem physiologischen Laboratorium der Kais. Universität Kazan.] Kazani Med. žurn. 1908 (1-14) 2 Taf.

Lloyd, R. E. The races of Indian Rats. Calcutta Rec. Ind. Mus. 3 1909 (1-100) pls. i-vi. 422

Lloyd, R. E. The relation between fertility and normality in Rats. Calcutta Rec. Ind. Mus. 3 1909 (261-265).

Loeb, Leo und Addison, W. H. F. Beiträge zur Analyse des Gewebewachstums. II. Transplantation der Haut des Meerschweinchens in Tiere verschiedener Species. Arch. Entw-Mech. Leipzig 27 1909 (73–88).

Lönnberg, Einar. A study of the variation of European Beavers. Ark. Zool. Stockholm 5 No. 6 1909 (1-16).

Lönnberg, E. Contribution to the knowledge of the anatomy of the Ruminants. Ark. Zool. Stockholm 5 No. 10 1909 (1-23).

†Lönnberg, E. Några fynd af subfossila Vertebrater. [Discoveries of subfossil Vertebrates.] Ark. Zool. Stockholm 6 No. 3 1909 (1-28). 427

Lönnberg, E. Taxonomic notes about Palearetic Reindeer. Ark. Zool. Stockholm 6 No. 4 1909 (1-18). 428

Lönnberg, E. Om Renarne och deras Lefnadsvanor. [On Reindeer and their mode of life.] Forhandlingarna inför Skiljedomstolen af 1909 1 Renbetesfrägan. Afdelning 1 Svensk Inlaga No. 3 Uppsala 1909 (1-197).

Loewenthal, N. Nouvelles recherches sur la glande sous-orbitaire. Bibliogr. anat. Nancy 18 1909 (257-269). 430 Loisel, Gustave. Rapport sur une mission scientifique dans les jardins et établissements zoologiques publics: et privés des États-Unis et du Canada et conclusions générales sur les jardins zoologiques. Nouv. Arch. Miss. Sci. Paris 16 1908 (217-406) pl. i-v. 431

Loisel, G. Influence du sexe mâledans l'hérédité du pelage chez le Lapni. Paris C. R. ass. franç. avanc. sci. 36 (Reims 1907) 2° partie 1908 (683-687).

Lorenz, v. L. Ueber die als "Schakale" bezeichneten Wildhunde. Wiem Verh. Zool. Bot. Ges. 53 1909 (82-84). 433

Lortet, E. et Gaillard, C. La Faune momifiée de l'Ancienne Egypte: Canidés-Lyon Arch. Mus. Hist. Nat. 10 1909 (259-294).

Lucas, A. H. S. and Le Souëf, W. H. Dudley. The Animals of Australia; Mammals, Birds, Reptiles. Melbourne 1909 (xi + 327). 425

Lühe, M. Albinismus bei Säugetieren und Vögeln Ostpreussens. Königsberg Schr. physik. Ges. 50 1909-(48-54).

†Lull, Richard S. The evolution of the Elephant. Washington D.C. Smithsonian Rep. 1908 (641-675) pls. i, ii 1909. 437

Lydekker, R. On a new race of Deer from Sze-chuen. London Proc. Zool. Soc. 1909 (588-590) pl. lxix. 438

Lydekker, R. On a Stag from Sikhim. London Proc. Zool. Soc. 1909 (599 600). 439

Lydekker, R. On the skull-characters of the Southern Sea Elephant. London Proc. Zool. Soc. 1909 (600-606). 440

Lydekker, R. On the skull of a Black Bear from Eastern Tibet, with a note on the Formosan Bear. London Proc. Zool. Soc. 1909 (607-610). 441

Lydekker, R. On a spotted Tsaine from Siam. London Proc. Zool. Soc. 1909 (668 669). 442

Lydekker, R. Note on the Cetacean Sotalia borneënsis. London Proc. Zool. Soc. 1909 (883).

Lydekker, R. Indian Buffaloes. Country Life London 26 1909 (679-681). 444 Lydekker, R. The Big Sheep of the Thian Shan. Field London 113 1909 (117). 445

Lydekker, R. The Wild Sheep of Asia Minor. Field London 113 1909 (242). 446

Lydekker, R. A spotted Tsainc. Field London 113 1909 (329). 447

Lydekker, R. The Wild Goats of the Caucasus. Field London 113 1909 (376). 448

Lydekker, R. The Tana Giraffe. Field London 113 1909 (814). 449

Lydekker, R. Holmwood's Rhinoceros. Field London 114 1909 (193).

Lydekker, R. Variation in Whitebearded Gnu. Field London 114 1909 (586). 451

Lydekker, R. Severtzoff's Wild Sheep. Field London 114 1909 (663).

Lydekker, R The Sea-Elephant of the Falklands. Field London 114 1909 (1172 1173). 453

Lydekker, R. vide British Museum.

Lyon, Marcus Ward. Remarks on the Insectivores of the genus Gymnura. Washington D.C. Smithson. Inst. Nation. Mus. Proc. 36 1909 (449-456) pls. xxxiv-xxxvii.

Lyon, M. W. Additional notes on Mammals of the Rhiolinga Archipelago, with descriptions of new species and a revised list. Washington D.C. Smithson. Inst. Nation. Mus. Proc. 36 1909 (479-491) pl. xxxix. 455

Lyon, M. W. A new Squirrel from Direction Island, 'South China Sea. Washington D.C. Smithson. Inst. Nation. Mus. Proc. 36 1909 (509-510).

Lyon, M. W. The authority for the name Nycticebus menagensis. Washington D.C. Proc. Biol. Soc. 22 1909 (89).

453

Lyon, M. W. and Osgood, Wilfred Hudson. Catalogue of the type-specimens of Mammals in the United States National Museum, including the Biological Survey Collection. Washington D.C. Smithson. Inst. Nat. Mus. Bull. 62 1909 (x + 325).

McNeill, Major Malcolm. [Big game of] Western China and Eastern

Tibet. Journ. Soc. Preserv. Wild Fauna London 5 1909 (106-109). 453

†Maillieux, Eug. Note sur la faune des cavernes à ossements des environs de Couvin. Bruxelles Bull. Soc. géol. 22 1908 (48-51). 460

[Makarevskij, A. N. und Petruševskij, V. D.] Макаревскій, А. Н. и Петрушевскій, В. Д. Стверный олень доманнее животное полярных странъ. Опыть изученія его.) Прилож. къВъстинку Общественной Ветеринаріи 1909 г. [Das Renntier als Haustierder Polarländer. (Versuch eines Studiums desselben.) Beilage zum Messager de médecine vétérinaire sociale 1909.] St. Peterburg 1909 (viii + 76) 9 Taf. 461

Malesani, Amelio. Contributo allo studio della rigenerazione della mucosa gastrica. Archivio ital. Anat. Embriol. Firenze 8 (359-374) tav. 1909.

Malsburg, Karol. Histologiczny problemat hodowlany. [Das histologische Problem der Züchtung.] Roczn.roln. Kraków 4 1909 (1-115). 463

Marcailhou-d'Ayméric, H. Note sur le Desman des Pyrenées. Autun Bull. Soc. Hist. Nat. 20 1907 C. R. (112-114).

Margier, E. Note sur le Desman des Pyrénées. Feuille jeunes natural. Paris 39 1909 (70). 465

Marinesco, M. G. vide Sala, Guido.

Marquordt, Hans. Untersuchungen über Altersveränderungen an der Drüsenschleimhaut des Pferdemagens. Bockenem 1909 (1-35) 8 Taf. 466

†Martelli, Alessandro. Note geologiche e palcontologiche sul travertinodi Ascoli Piceno. Riv. ital. paleont. Perugia 14 1908 (97-102). 467

Martensen, Max. Ein Fall von heterogener Doppelbildung bei einem Hunde. Borna-Leipzig 1909 (1-84) 4 Taf. 468:

†Martin, Henri. La faune Mousteriénne de la Quina. Paris C. R. Ass. franç. Avanc. Sci. 37 1908 (727-730) 1909. 469

†Martin, K. Rangifer tarandus aus Niederland. Amsterdam Versl. Wis. Nat. Afd. K. Akad. Wet. 18 1909 (422-432) Taf. 470 Martin, Paul. Die Areolae auf der Uterussehleimhaut des Schweines. Anat. Anz. Jena 34 ErgH. 1909 (183

26 Mam.

Martin, P. Zur Entwickelungsgeschichte des Schweine- und Wieder-Anat. Anz. Jena 34 käuerdarmes. ErgH. 1909 (73-77). 472

[Martynov, V. Th.] Мартыновъ, В. Ө. Къ вопросу о размножении клътокъ въ амніотическомъ эпителіи млеко-[Zur Frage über die питающихъ. Fortpflanzung der Zellen im Amnionepithel der Säugetiere.] St. Peterburg Trav. Soc. nat. 40 1 1909 (87-136) Taf.

Matschie, Paul. Eine Art der Gattung Pteropus von der Insel Pemba. Berlin SitzBer. Ges. Nat. Freunde 1909 (482-486).

Matschie, P. Mammalia, Säuge-ere. In: Die Süsswasserfauna tiere. Deutschlands. Jena 1909 (1-14). 475

Matschie, P. Allerlei aus Geschiehte der Einhufer. 'Monatshefte natw. Unterr. Leipzig 2 1909 (296-310).

Matschie, P. vide Brauer.

†Matthew, W. D. The Carnivora and Insectivora of the Bridger Basin, Middle Eocene. New York N.Y. Mem. Amer. Mus. Nat. Hist. 9 1909 (291-567) pls. xlii-li.

†Matthew, W. D. Observations upon the genus Ancodon. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (1-7).

†Matthew, W. D. Patagonia and the Pampas Cenozoic of South America; a critical review of the correlations of Santiago Roth, 1908. New York N.Y. Ann. Acad. Sci. 19 1909 (149-160).

†Matthew, W. D. and Cook, Harold J. A Pliocene fauna from Western Nebraska. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (361-414).

Matthew, W. D. vide Osborn, H. F.

Mauss, Theodor. Die faserarchitektonische Gliederung der Grosshirnrinde bei den niederen Affen. J. Psychol. Leipzig 13 1908 (263-325) 5 Taf. 480

Mayer, André et Rathery, F. R. Recherches sur l'histo-physiologie de la sécrétion urinaire chez les Mammi-Arch. anat. microsc. Paris 11 fères. 1909 (134–166) pl. v.

†Mayet, Lucien. Les Mammifères Miocenes du centre de la France. Paris C. R. Ass. franç. Avanc. Sci. 37 1908 (626-633) 1909. [The n. spp. quoted are nomina nuda; they are described elsewhere.]

†Mayet, L. Étude sommaire des Mammifères fossiles des Faluns de la Touraine, proprement dite. Ann. Univ. Lyon ser. 2 Sci. Med. 26 1909 (1-72):

The chondroeranium Mead, C. S. of an embryo Pig. Amer. J. Anat. Philadelphia Pa. 9 1909 (107-210) 4 484

Mearns, E. A. vide Osgood, W. H.

Meissner, M. E. Mammalia für 1905. Arch. Natg. Berlin 71 2 1 1909 (1-120) zweite Zählung.

Ménégaux, A. La nourriture des arcsseux. Paris Bul. soc. zool. 33 Paresseux. 1909 (159-161). 485

Ménégaux, A. La nourriture des Paresseux d'après les observations de M. et Mme. Geay, voyageurs du Bul. Muséum d'Histoire naturelle. Muséum Paris 1908 (337-340). 486

Ménégaux, A. A propos d'Hemibradypus mareyi, Anth. = Bradypus (Scæopus) torquatus (Ill.). Bull. soc. zool. 34 1909 (27-32).

Ménégaux, A. Squelette du membre postéricur de Bradypus (Scacopus) torquatus Ill. Paris C. R. Acad. sei. 148 1909 (797-799). 488

Ménégaux, A. Contribution à l'étude des Edentés actuels, famille Contribution à des Bradypodidés. Paris Arch. Zool. Exper. ser. 5 1 1909 (277-344) pls.

Ménégaux, A. Quelques faits nouveaux de la biologie des Paresseux. Rev. sci. Paris sér. 5 11 1909 (523-527).

Sur le peu d'im-Ménégaux, A. portance systematique du caractère tiré de la présence ou de l'absence du foramen sus-épicondylien. Paris Bull. Soc. Philom. ser. 10 1 No. 3 1909 (1-8). 491 †Merriam, John C. The occurrence of Strepsicerine Antelopes in the Tertiary of North-western Nevada. Berkeley Calif. Univ. Calif. Publ. Bull. Dept. Zool. 5 1909 (319-330). 492

†Merriam, J. C. The skull and deutition of an extinct Cat closely allied to Felis atrox, Leidy. Berkeley Calif. Univ. Calif. Publ. Bull. Dep. Geol. 5 1909 (291-304) pl. xxiv. 493

Metzorer, B. Beiträge zur Morphologie und Physiologie einiger Entwicklungsstadien der Speicheldrüsen der carnivoren Haustiere, vornehmlich der Katze. Basel Verh. Natf. Ges. 20 1909 (38-54).

Michaelis, Ad. Alf. Stammt der Mensch vom Affen ab? Gemeinverständliche Descendenz - Theoric. Langensalza 1909 (xiv + 203) 2 Taf. 425

Millán, Francisco Aranda. Nota sobre seis casos de monstruos dobles. [Notes on six cases of double monsters.] Madrid Bol. Soc. Esp. Hist. Nat. 9 1909 (206-211).

Miller, Gerrit S. The Mouse-Deer of the Rhio-Linga Archipelago: a study of specific differentiation under uniform environments. Washington D.C. Smithson. Inst. Nation. Mus. Proc. 37 1909 (1-9) pls. 1-3. 497

Miller, G. S. A new Carnivore from British East Africa. Washington D.C. Smithson. Miscell. Coll. 52 1909 (485-487).

Miller, G. S. The generic name Nycteris. Washington D.C. Proc. Biol. Soc. 22 1909 (90). 499

Miller, G. S. Note on the Vespertilio oxygnathus of Monticelli. Napoli Ann. Mus. Zool. ser. 2 3 No. 3 1909 (12). 500

Miller, W. De W. and Chapin, James. The Allegheny Cave Rat at Newfoundland, N. J. Washington D.C. Proc. Biol. Soc. 22 1909 (88). 501

[Milutin, W.] Милютинь, В. Изсивдованіе костной ткани въ поляризованномъ свътъ. [Untersuchung des Knochengewebes im polarisierten Lichte.] St. Peterburg Trav. Soc. nat. C. R. séances 38 1 1907 (187–190). Mintzlaff, Max. Leber, Milz, Magen und Pankreas des Hundes. Dresden 1909 (1-103) 2 Taf. 503

[Mislavskij, A. N.] Миславскій, А. Н. Матеріалы къ гистологіи сложныхъ трубчатыхъ (мерокриновыхъ железь кожи млекопитающихъ. Железистый аппарать кожи подбородка кролика. [Beiträge zur Histologie der zusammengesetzten tubulösen Drüsen (Merokrindrüsen) in der Haut der Säugetière. Der Drüscnapparat in der Kinnhaut des Kaninchens.] Kazani Zap. Univ. 76 1909 (1-78) 3 Taf. 504

Mitchell, P. Chalmers. The ears of an Elephant from British East Africa. London Proc. Zool. Soc. 1909 (667, 668).

Mitchell, P. C. Note on the Mishmi Takin. London Proc. Zool. Soc. 1909 (741). 506

Mitchell, P. C. Notes on a young Walrus (Odobænus rosmarus) recently living in the Society's Gardens. London Proc. Zool. Soc. 1909 (730-732) pl. lxxvi.

Möckel, Oskar. Die Venen des Kopfes des Pferdes und ihre Variationen. Dresden 1909 (1–85). 508

Mösch, Oskar. Sur la domestication du Loup. Arch. Sci. Phys. Genève ser. 4 22 1906-07 (371-372); Verh. Schweiz. Natw. Ges. 89 1906-07 (72-73). 509

Moll, J. M. Die puerperale Involution des Uterus vom Maulwurf (*Talpa europaea* L.). Wiesbaden 1909 (1-107) 15 Taf. 510

Morel, L. vide Harvier, P.

Morgan, Camillo. Der Hund:
Seine Abstammung und Geschichte,
seine gegenwärtigen Rassen, seine
Züchtung . . . (Monographien unserer Haustiere, hrsg. v. Kosmos,
Bd 3.) Stuttgart 1909 (1-39). 511

Morgan, T. H. Breeding experiments with Rats. Amer. Nat. Lancaster Pa. 43 1909 (182–185). 512

Moscati, Ermanno. Sulla presenza, sulla costituzione e sulla probabile funzione delle ghiandole a gomitolo annesse alla pelle del Cane. Archivio ital. Anat. Embriol. Firenze 7 1909 (519-532).

Mouchet, Aimé. Vaisseaux lymphatiques du cœur chez l'Homme et les Mammifères. Paris C. R. soc. biol. 66 1909 (254 255). 514

Mourgue, M. Note sur le Hérisson d'Europe. Feuille jeunes natural. Paris 38 1908 (87). 515

†Mourion, M. Découverte d'ossements de Mammouth dans le limon de Freeren, près de Tongres. Bruxelles, Bull. Soc. géol. 22 1908 (5-9). 516

†Mourlon, M. Sur la découverte de l'Elephas antiquus au Kattepoel, à Schaerbeek-les-Bruxelles, dans un dépôt rapporté au Quaternaire moséen. Bruxelles Bull. Soc. géol. 22 1908 (327-333). 517

†Mühlberg, F. Erläuterungen zur geologischen Karte der Umgebung von Aarau. Aarau Mitt. Natf. Ges. 11 1909 (1-86). 518

Mulon, P. Sur les corps gras des cellules rénales. Paris C. R. soc. biol. 66 1909 (434-435 458-459). 519

Namiye, Motokichi. Okinawa oyobi Amami-Oshima no sho-jurui ni tsuite. [On small mammals of Okinawa and Amami-Oshima Islands.] Dobuts. Z. Tokyo 21 1909 (452-457) pl. 520

[Nassonov, N. V.] Насоновъ, Н. В. Предварительное сообщение о новомъ видъ барана Ovis laristanica изъюжной Персіи. [Note préliminaire sur une nouvelle espèce du Mouton sauvage, Ovis laristanica, de la Perse méridionale.] St. Peterburg Bull. Ac. sc. 3 1909 (1179–1180). 521

Nelson, E. W. The Rabbits of North America. Washington D.C. Dept. Agric. Div. Biol. Surv. N. Amer. Fauna No. 29 1909 (1-314) pls. i-xii. 522

Nelson, E. W. and Goldman, E. A. Eleven new Mammals from Lower California. Washington D.C. Proc. Biol. Soc. 22 1909 (23-28). 523

Neuville, Henri vide Rothschild, Maurice de.

Nevermann, Ludwig vide Frosch, Paul.

†Newton, E. T. Hamster remains from the Norfolk Forest Bed. Geol. Mag. London decade 5 6 1909 (110– 113). 524

Noack, Th. Haustiere der Altai-Kalmücken. I. Hunde und Katzen. II. Schafe und Rinder. III. Pferde.Zool. Anz. Leipzig 34 1909 (683-695 750-760 783-787).525

[Novikov, М. М.] Новиковъ, М. М. Къ вопросу о значени амитотическато дѣленіи. [Zur Frage über dio Bedeutung der amitotischen Teilung.] Moskva Dnevn. XII. Sjězda russ. jest. vrač. 1909–1910 (157 158).

Novikov, M. M. Untersuchungen über die Structur des Knochens. Zeits. wiss. Zool. Leipzig 92 1909 (1-50).

Obermaier, H. vide Schlosser, Max.

Ohm, Johannes. Die Lehre vom Zahnalter [der Pferde]. Zs. Veterinärk. Berlin 20 1908 (356-365). 528

†Olcott, Theodore F. A new species of *Teleoceras* from the Miocene of Nebraska. Amer. J. Sci. New Haven Conn. ser. 4 28 1909 (403 404). 529

†Olivier, Ernest. La mâchoire du Rhinocéros de Billy. Moulins Rev. Sci. Bourb. 22 1909 (126-129) pl. 530

Olivier, E. Rhinopoma microphyllum en Tunisie. Paris Bul. soc. zool. 34 1909 (148). 531

Olivier, E. Variation de la couleur chez quelques animaux sauvages. Paris Bul. soc. 2001. 34 1909 (60-63). 532

Orléans, S. A. R. le Duc d'. Croisière Océanographique dans le mer du Grönland. Bruxelles 1907 (567 + v).

Ormezzano. Rat fauve ou Alexandrin. Autun Bul. soc. hist. nat. 19 1906 Proc.-verb. (119 120).

†Osborn, Henry Fairfield. Cenozoic Mammal Horizons of Western North America, with faunal lists of the Tertiary Mammalia of the West by William Diller Matthew. Washington D. C. U. S. Geol. Surv. Bull. 361 1909 (1-138).

†Osborn, H. F. New Carnivorous Mammals from the Fayum Oligocene, Egypt. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (415-424).

†Osborn, H. F. Coincident evolution through retrogradations and fluc-

tuations (3rd paper). Science New York N.Y. ser. 2 27 1908 (749-752). 538

†Osborn, H. F. The feeding-habits and affinities of Moeritherium and Palaeomastodon. Nature London 81 1909 (139 140). 539

Osgood, Wilfred H. The status of Sorex merriami with description of an allied new species from Utah. Washington D.C. Proc. Biol. Soc. 22 1909 (51-53).

Osgood, W. H. Revision of the Mice of the American genus Peromyscus. Washington D.C. U. S. Dept. Agric. Div. Biol. Surv. N. Amer. Fauna No. 28 1909 (1-285) 8 pls. Reviewed by E. A. Mearns. Science New York N.Y. ser. 2 30 1909 (119-121). 541

Osgood, W. H. Biological Investigations in Alaska and Yukon Territory. Washington D.C. Dept. Agric. Div. Biol. Surv. N. Amer. Fauna No. 30 1909 (1-96) 5 pls.

Osgood, W. H. The Big Game of Alaska. Nat. Geog. Mag. Washington D.C. 20 1909 (624-636) pls. 543

Osgood, W. H. A peculiar Bear from Alaska. Chicago Field Mus. Publ. Zool. 10 1909 (1-3). 544

Osgood, W. H. vide Lyon, M. W.

[Osipov, A.] Осиповъ, Алексѣй. Разведеніи кроликовъ. [Die Kaninchenzucht zu industriellen und wirtschaftlichen Zwecken.] Derevnia St. Peterburg 13 1909 (163–168 211–215 266–270 322–323 370–373 415–418 474–479 520–522).

[Osipov, A.] Осиповъ, А. Разведеніи кроликовъ etc. [Die Kaninchenzucht zu industriellen und wirtschaftlichen Zwecken.] Schluss. Derevnia St. Peterburg 13 1909 (570-584). 546

Osten-Sacken, M. Eine gehörnte säugende Ricke. N. Balt. Weidm.-blt. Riga 5 1909 (419). 547

Oswald, Felix. The degeneration of armour in animals. Science Progress London 1909 (122-134). 548

Otto, Hugo. Beobachtungen an verwilderten Hunden. Zool. Beob. Frankfurt a. M. 50 1909 (176–178). 549

Ourcel, P. vide Bouin, P.

Paoli, Angelo. Caso di anomalia nella sesta e settima vertebra cervicale di un Cavallo. Moni. zool. ital. Firenze 20 1909 (237-242). 550

Papin, Louis. Sur le mode de disparition du réseau veineux "cardinorénal" chez les Mammifères. Arch. zool. Paris sér. 5 1 1909 Notes et Revues (xiii-xviii).

Pardi, Francesco. Musculi tensores fasciae cruris. Pisa Atti Soc. tosc. sc. nat. Proc. verb. 18 1908-09 (38-48).

Pardi, F. Ancora sopra il significato delle cellule vasoformative di Ranvier. Archivio ital. Anat. Embriol. Firenze 8 1909 (98-115) tav. 553

Paris, Paul. Un cas de reproduction du Ouistiti (*Hapale jacchus*). Paris Bul. soc. 2001. 33 1909 (147). 554

†[Pavlova, M. V.] Павлова, М. В. О третичныхъ млекопитающихъ Бессарабіи, Херсопской и др. губ. [Ueber die tertiären Säugetiere Bessarabiens und des Gouv. Cherson u. a. m.] Moskva Dnevn. xii. Sjözda russ. jest. vrač. 1909–1910 (265).

Pearless, S. H. Birth of a Loris. Spolia Zeylan. Colombo 6 1909 (134).

Pennetier, G. vide Brasil, L.

Pensa, Antonio. Osservazioni sulla morfologia dei vasi linfatici degli arti nei Mammiteri. Anat. Anz. Jena 34 1909 (379-394). 557

Penttinen, Juho. Tammihüri Karjalassa. [Eliomys quercinus in Karelen.] Luonnon Ystävä Helsingfors 13 1909 (152). 553

Peter, Karl. Die Nierenkanälchen des Menschen und einiger Säugetiere. In: Untersuchungen über Bau und Entwickelung der Niere, hrsg. von K. Peter. Jena 1909 H. 1 (3-358) 7 Taf. 559

Peters, J. Ueber Blutlinien und Verwandtschaftszuchten nach Erhebungen der ostpreussischen holländer Herdbuchgessellschaft. Arb. D. Ges. Züchtgsk. Hannover H. 3 1909 (1-13) Taf. 560

†Peterson, O. A. A revision of the Entelodontidae. Pittsburgh Pa. Mem. Carnegie Mus. 4 1909 (41-156) pls. liv lxii. 561

†Peterson, O. A. A new genus of Carnivores from the Miocene of Western Nebraska. Science New York N.Y. ser. 2 29 1909 (620 621). 562

Petit, L. Cas d'albinisme et variétés de eoloration chez les Ecureuils et différents Oiseaux. Paris Bul. soc. zool. 34 1909 (32-35). 563

Petruševskij, V. D. vide Makarevskij, A. W.

†Piaz, G. Dal. Sui Vertebrati delle arenarie mioeeniche di Belluno. Padova Atti Ace. Ven,-trent. ser. 2 5 1909 (106-120). 564

Piper, Stanley E. The Nevada Mouse Plague of 1907–08. Washington D.C. Dep. Agrie. Fauna Bull. No. 352 1909. 565

Piper, S. E. Mouse-plagues, their control and prevention. Washington D.C. Yearbook Agrie. Dept. 1908 (301–310) pls. xxi-xxv. 536

†Pira, Adolf. Studien zur Geschichte der Schweinerassen insbesondere derjenigen Schwedens. Zool. Jahrb. Jena 1909 Suppl. 10 (233–426). 557

Poche, Franz. Macrorhinus oder Mirounga? Zool. Anz. Leipzig 34 1909 (319). 538

Pocock, R. I. On the skulls of Leopards. London Proc. Zool. Soc. 1909 (204–209). 569

Pocock, R. I. Description of a new form of Ratel (Mellivora) from Sierra Leone, with notes upon the described African forms of this genus. London Proc. Zool. Soc. 1909 (394-398).

Pocock, R. I. Photographs of Burchell's and Wahlberg's Quaggas. London Proc. Zool. Soc. 1909 (415-419).

Pocock, R. I. On a new Monkey. London Proc. Zool. Soc. 1909 (545 546).

Pocock, R. I. On the colours of Horses, Zebras, and Tapirs. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (404– 415).

Pocock, R. I. On the agriotype of Domestic Asses. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (523-527).

Pocock, R. I. Ward's Zebra. Field London 114 1909 (889). 575 [Pogorželiskij, V. А.] Погоржельскій, В. А. Наши ръдкости. Черный волкъ. [Unsere Seltenheiten. Der schwarze Wolf.] Moskva Věst. zool. sada 2 1909 (112–114). 576

Pohl, Lothar. Ueber das Os penis der Mustelidae. Jenaische Zs. 45 1909 (379-394). 577

†Pohlig, Hans. Ucber zwei neue altplistoeäne Formen von Cervus. Berlin Monatsber. D. geol. Ges. 1909 (250–253).

Pohlman, A. J. The circulation of mixed blood in the embryo Mammal and Bird, and in the adult Reptile, Amphibian, and Fish. Indianopolis Ind. Proc. Acad. Sci. 1908 (201-208) 1909.

Policard, A. Notes histophysiologiques sur la eellule hépatique: sur certaines formations eolorables par l'hématoxyline ferrique dans la cellule hépatique des Mammifères. Paris C. R. soc. biol. 66 1909 (465–469). 579

Police, Gesualdo. Il Globicephalus melas, Traill, del Museo Zoologieo della R. Univ. di Napoli. Napoli Ann. Mus, Zool. ser. 23 No. 81909 (1-8). 580

Poliński, W. Przyczynek do asymetryi czaszki waleni (Cetacea). [Ein Beitrag zur Kenntnis der Asymmetrie des Walschädels.] Kosmos Lwów 34 1909 (1124–1138). 530a

[Polumordvinov, D.] Полумордвиновъ, Д. О роли первимуъ клитокъ сердца. [Ueber die Rolle der Nervenzellen des Herzens.] Kazanĭ Zap. Univ. 76 1909 (1-13). 581

†Pontier, G. La faune quaternaire de la vallée de l'Aa. Lille Ann. Soc. géol. 36 1907 (347-355). 532

†Pontier, G. Note à propos d'un Elephas antiquus de Tilloux. Lille Ann. Soc. géol. 36 1907 (356–360). 533

[Popov, D. D.] Поповъ, Д. Д. Сравнительно-анатомическое изслѣдованіе матокъ обезвинъ (неантропопдныхъ), человѣка и животныхъ. [Vergleichend-anatomisehe Untersuchung des Uterus der nichtanthropomorphen Affen, des Menschen und der Tiere.] Russ. vrač St. Peterburg 8 1909 (809-814 851-855). 584

31 Mam.

TITLES. 6000

[Poručikov, D.] Поручиковъ, Д. Матеріалы къ ученію о гемолимфатическихъ желевахъ круппаго рогатаго скота и овець. [Beiträge zur Lehre von den haemolymphatischen Drüsen der Rinder und Schafe.] Charikov C.-r. Inst. véterin. 9 2 1909 (47-68).

Pöyhönen, Mayu. Miten hilleri saapui Haminaan. [Foetorius putorius in Fredrikshamn, Finland.] Luonnon Ystävä Helsingfors 13 1909 (109-111) 536

Priemel, Kurt. Geburt einer Kegelrobbe, Halichoerus grypus, Nilss. Zool. Beob. Frankfurt a. M. 50 1909 (213 214).

Prince, E. E. The Pronghorn Antelope. Ottawa Nat. 23 1909 (41-46).

Protheroe, E. The Handy Natural History: Mammals. London 1909. 539

Punnett, R. C. On the alleged influence of lecithin upon the determination of sex in Rabbits. Cambridge Proc. Phil. Soc. 15 1909 (92 93).

†Quackenbush, L. S. Notes on Alaskan Mammoth-expeditions of 1907 and 1908. New York N.Y. Bull. Amer. Mus. Nat. Hist. 26 1909 (87–130) pls. xvii-xxv. 591

Quix, F. H. Over het gehoororgaan der Japansche Dansmuis. [Über das Hörorgan der japanischen Tanzmaus.] Amsterdam Werk Gen. Nat. Genees. Heelk. ser. 2 6 2 1909 (83 84). 532

Rabl, Hans vide Schaffer, Josef.

[Rasevig, V. A.] Разевигъ, В. А. Малоизследованные звери Россіи. XI. Кавказскій бугристорогій туръ Діциника. (Capra dinniki, Sat.) [Wenig bekannte Säugetiere Russlands XI. Capra dinniki, Sat.] Semja ochotn. Moskva 1909 (39–42). 593

[Rasevig, V. A.] Разевигъ, В. А. Малоизсивдованные и рвдкіе звври Россіи. XIII. Олень бухарскій. [Wenig bekannte und seltene Säugetiere Russlands. XIII. Cervus bactrianus.] Semja ochotn. Moskva 4 1909 (209-211).

[Rasevig, V. A.] Разевитъ, В. А. Асимистрія формы роговъ козули. [Eine Asymmetrie des Geweihes beim Reh.] Semja ochotn. Moskva 1909 (143). [Rasevig, V. A.] Разевить, В. А. Козуля ферганская, Capreolus pygargus, var.? [Das Reh der Ferghana, Capreolus pygargus, var.?] Semja ochotn. Moskva 1909 (160). 596

Rathery, F. R. vide Mayer, André.

Raudnitz, R. W. Kurze Zusammenstellung der chemischen Zusammensetzung und der Eigenschaften der verschiedenen Milcharten. [In: Handbuch der Milchkunde. Hrsg. von Paul Sommerfeld.] Wiesbaden 1909 (833–835).

Rauther, Max. Neue Beiträge zur Kenntnis des Urogenitalsystems der Säugetiere. Jena Denkschr. med. Ges. 15 1909 (417-466) 3 Taf. 598

Rawitz, Bernhard. Das Zentralnervensystem der Cetaceen. II. Die Medulla oblongata von Phocaena communis (Cuv.) Less. und Balaenoptera rostrata Fahr. Zugleich ein Beitrag zur vergleichenden Morphologie der Oblongata der Säuger. Arch. mikr. Anat. Bonn 73 1909 (306–389) Taf.

Reagan, Albert B. Animals of the Olympic Peninsula, Washington. Indianapolis, Ind. Proc. Acad. Sci. 1908 (193-199) 1909. 600

Regaud, Cl. et Dubreuil, G. Action du mâle sur le rut et l'ovulation chez la Lapine. I: Le voisinage prolongé, sans accouplement, est insuffisant pour provoquer l'ovulation. II: Observations sur le rythme génital. Paris C. R. soc. biol. 65 1908 (501-503 661-673).

Regaud, Cl. et Dubreuil, G. Observation d'œufs de Lapin à deux germes, contenus dans une enveloppe commune sécrétée par l'oviducte. Paris C. R. acad. sci. 148 1909 (1279-1281). 602

†Reinhardt, Ludwig. Die weitaus ältesten bisher gefundenen Menschenreste. Natwis. Wochenschr. Jena ser. 2 8 1908 (323-329). 603

Retterer, Ed. et Lelièvre, A. Structure du muscle utérin du Cobaye à quelques stades fonctionnels. Paris C. R. soc. biol. 66 1909 (282-285). 604.

Retterer, E. et Lelièvre, A. Mitose et amitose lors de la rénovation de l'utérus après le part. Paris C. R. soc. biol. 66 1909 (602-605).

Retterer, E. et Lelièvre, A. Origine et transformations des cellules qui, après le part, contribuent à la rénovation de la muqueuse utérine. Paris C. R. soc. biol. 67 1909 (631-633). 606

Retterer, E. et Lelièvre, A. Variations de structure des muscles squelettiques selon le geure de travail (statique ou dynamique) qu'ils fournissent. Paris C. R. soc. biol. 66 1909 (1002-1005).

Retzius, Gustaf. Die Spermien der Säugetiere: Marsupialia, Edentata, Insectivora, Rodentia, Ungulata, Cetacea, Carnivora, Primates. Biolog. Untersuchungen Jena N. F. 14 1909 (123-230).

Retzius, G. Om spermiernas form hos de antropoida aporna. [Über die Form der Spermien bei den Anthropoiden Affen.] Ark. Zool. Stockholm 6 No. 8 1909 (1-6).

Retzius, G. Till kännedomen om byggnaden och utvecklingen af förbindningsstycket mierna. [The knowledge of the structure and development of the connecting part of the mammalian spermatozoa.] Hygica Stockholm Testband 1908 1 No. 2 (1-21) pls. 1909.

†Reynolds, Sidney H. A monograph of the British Pleistocene Mammalia. 2, pt. 3. The Canidae. London Pal. Soc. 1909 (1-28) pls. i-vi. 611

[Riabušinskij, S.] Рябушинскій, С. Песецъ въ Тверской губериіи. [Der Eisfuchs im Gouv. Tver.] Ochotn. gaz. Moskva 37 1909 (396). 612

Richter, Oswin Clemens. Ueber den Bau und die Funktion der Fussenenden der Perissodactyla unter besonderer Berücksichtigung der Bewegungsvorgänge am Hufe des Pferdes. Dresden 1905 (1-187).

Ridgeway, William. Contributions to the study of the Equidae; i. the differentiation of the three species of Zebra. London Proc. Zool. Soc. 1909 (547-563).

Ridgeway, W. Contributions to the study of the Equidae; ii. on hitherto unrecorded specimens of Equus quagga. London Proc. Zool. Soc. 1909 (563-586).

†Ridgeway, W. Contributions to a study of the Equidae; iii. On a portion of a fossil jaw of one of the Equidae. London Proc. Zool. Soc. 1909 (586-588).

Ridgeway, W. Note on Ward's Zebra. London Proc. Zool. Soc. 1909 (798 799).

Robinson, H. The colour of some Wild Animals. Knowledge & Scient. Mus. London 6 1909 (11-14). 618

Robinson, H. W. The weight and length of Otters. Field London 113 1909 (1126); Ann. Scot. Nat. Hist. Edinburgh 71 1909 (134-139). 619

Rodriguez, Juan J. Catálogo de los animales que se encuentran en Guatemala; primera clase, Mammalia. [Catalogue of the Animals found in Guatemala; class i. Mammalia.] San Salvador An. Mus. Nac. 3 1909 (361-368). 620

Rörig, A. Fortbewegungsarten und Wanderungen der Cerviden. D. Jäger. München 31 1909 (126 127 140).

Rörig, G. Die nördliche Wühlratte, Arvicola ratticeps, Keys et Blas., in Deutschland und ihre Verwandtschaft mit den russischen Arvicoliden. Berlin Arb. biol. Anst. 7 1909 (429– 479) pls. iv-vi. 622

Roger, J. Au sujet de l'appareil sudoripare carpien du Porc et des châtaignes des Schipèdes. Rennes Bull. Soc. Sci. Méd. Ouest. 18 1909 (122-125).

Roi, O. le und Geyr von Schweppenburg, H. Freiherr. Vorläufiges Verzeichnis der Säugetiere der mittleren Westdeutschlands. Bonn Verh. Nat. Ver. preus. Rheinl. u. Westfal. (5 1909 (214-220).

†Roman, F. Sur un crâne de Rhinocéros conservé au Musée de Nérae (Lot-et Garonne), Rhinoceros (Ceratorhinus) sansaniensis, Lartet. Lyon Ann. Soc. Linn. 56 1909 (1-12) pl. 1. 625

Roscher, Paul. Ein Beitrag zur vergleichenden Histologie der Glandula parotis und des Ductus parotideus bei den Haussäugetieren. Zs. Tiermed. Jena 12 1908 (252–268). 626

Roscher, P. Ueber den Vorderdarm von Cricetus frumentarius; ein Beitrag zur vergleichenden Anatomie und Histologie. Dresden 1909 (1-107) 6 Taf.

Rostafinski, Jan. Porównawcze badania nad przemianą materyi u przeżuwacza wobec naturalnej paszy lub sucharów. [Etudes comparatives sur le métabolisme chez les Ruminants dans le cas d'une alimentation soit naturelle soit composée de biscuits.] Roczn. roln. Kraków 4 1909 (355-416).

Rothschild, Baron Maurice de et Neuville, Henri. Remarques sur l'Okapi. Paris C. R. acad. sci. 149 1909 (693-695). 628

Rothschild, Hon. Walter. Nasua vittata Tsch. Nov. Zool. Tring 16 1909 (333) pl. i. 629

[Rubaschkin, W. J.] Рубашкинъ, В. З. О происхождени половыхъ клѣтокъ у млекопитающихъ. [Ueber die Herkunft der Geschlechtszellen bei den Säugetieren.] St. Peterburg Trd. Obšě, утаё, 76 1909 (442–444).

Rubaschkin, W. Ueber die Urgeschlechtszellen bei Säugetieren. Anat. Hefte Wiesbaden Abt. 1 39 1909 (603-652) 4 [2] Taf. 631

Rudge, C. King and Charbonnier, H. J. The Mammals of the Bristol district. Bristol Proc. Nat. Soc. ser. 4 2 1909 (55-60).

Russo, Achille. Azione di alcuni agenti chimici sulle cellule del tubo seminifero del Coniglio. Monit. zool. ital. Firenze 20 1909 (64-67). 633

Russo, A. Sulla eromolisi delle cellule della granulosa duranto il digiuno e sul suo significato nella differenziazone sessuale delle ova dei Mammiferi. Catania Atti Acc. Gioen. 86 Mem-12 & 13 1909 4 pls.

†Rutten, L. M. R. Die diluvialen Säugetiere des Nicderlande. Utrecht und Berlin 1909 (1-116) 2 Taf. und 2 Karten. 635

Rynberk, G. van. Die neueren Beiträge zur Anatomie und Physiologie des Kleinhirns der Säuger. Folia Neuro-Biologica Leipzig 1 1907 (46– 62) 1908 (403–419). 636

†Rzehak, A. Oncophora-Schichten bei Brünn. Wien Verh. Geol. Rehs-Anst. 1908 (336-337). 637

Sabanejew, L. L. vide Shitkow, B. M. (N-11091 f)

Sabbath, Wolfgang. Zur Histologie der vorderen Wurzeln des Rückenmarks der Säuger. Arb. neurol. Inst. Wien Leipzig 17 1908 (175-189). 638

Sacerdotti. Les plaquettes des Mammifères et le sérum antiplaquettique. Arch. ital. Biol. Pisa 52 1909 (153-179).

Sachs, Ernest. Eine vergleichende anatomische Studie des Thalamus opticus der Säugetiere. Arb. neurol. Inst. Wien Leipzig 17 1908 (280–306).

Sagadinas, Franz. Anatomische und histologische Untersuchungen über das Ovarium von Lepus timidus. Bern 1908 (1-20). 641

Sala, Guido. Ueber die Regenerationserscheinungen im zentralen Nervensystem. Anat. Anz. Jena 34 1909 (193–199) Taf. 642

†[Salensky, V. V.] Заменскій, В. В. Микроскопическія изслідованія півкоторых вірганов мамонта, найденняго на р. Березовкі. [Mikroskopische Untersuchungen einiger Organe des an der Beresovka gefundenen Mammuts.] Wiss. Erg. ein. v. d. K. Akad. d. Wiss. zur Ausgrab. d. i. J. 1901 a. d. Beresovka gefund. Mammutkadavers ausgerüst. Exped. Bd. 2. St. Peterburg 1909 (21–35) Taf. ii-vi.

†[Salensky, V. V.] Залепскій, В. В. Видовые воологическіе привнаки мамонта. [Ueber die zoologischen Speciesmerkmale des Mammuts.] Wiss. Erg. ein. v. d. K. Akad. d. Wiss. zur Ausgrab. d. i. J. 1901 a. d. Beresovka gefund. Mammutkadavers ausgerüst. Exped. Bd. 2 St. Peterburg 1909 (36–40) Taf. vii.

Sand, G. Et Bidrag til Belysning af Börslyngningens ætiologi og patogenese. (On the ætiology and patogenesis of the "torsio uteri.") [Observations on the position of the uterus in the Cow before and during pregnancy.] Köbenhavn Mdskf. Dyrl. 21 1909 (49-68).

Sarasin, Fritz. Uber die Geschichte der Tierwelt von Ceylon. Act. Soc. Helv. Sci. Nat. Lausanne 1909 1 (117– 138). 646

Sarasin, Paul. Schutz den Walen.
 Zool. Anz. Leipzig 35 1909 (216-217).
 647

[Satunin, K. A.] Сатунинъ, К. А. Матеріалы къ познанію млекопитающить Кавказскаго края и Закаспійской Облости. XI. О желтомъ сусликѣ, или Карбынъ (Cynomys fulvus Licht.) и его положеніи въ системѣ. [Beiträge zur Kenntnis der Säugetierfauna Kaukasiens und Transkaspiens. xi. Ueber die gelbe Zieselmaus (Cynomys fulvus Licht.) und ihre Stellung im System.] Tiflis Mitt. Kauk. Mus. 4 1909 (175–193).

[Satunin, K. A.] Сатунинъ, К. А. Матеріалы къ познанію млекопитающихъ Кавказскаго края и Закаспійской области. XII–XVI. [Beiträge zur Kenntnis der Säugetierfauna Kaukasiens und Transkaspiens. xii–xvi.] Tiflis Mitt. Kauk. Mus. 4 1909 (269–300).

[Satunin, K. A.] Сатупинъ, К. А. Фаупа Кавказа. [Die Fauna des Kaukasus.] Forts. Ochotn. gazeta Moskva 37 1909 (4).

Satunin, K. A. Ueber einen neuen Ziesel aus Nordpersien (Cynomys concolor hypoleucos Satun. subsp. nova). St. Peterburg Ann. Mus. zool. 14 1909 (1-4).

[Satunin, K. A.] Сатунинъ, К. А. Очерки природы Кавказа. VII. Экскурсія на вершину Ашихъ-дашъ въ хребть Агридагъ. [Skizzen zur Naturbeschreibung des Kaukasus. VII. Eine Excursion auf dem Gipfel des Aschich-dasch im Gebirgszuge Agridag.] Jestestv. i geogr. Moskva 14 1909 7 (1-17).

[Satunin, K. A.] Сатунинъ, К. А. Звъри Россіи. Дополненіе: Родъ Сарта—Козлы. [Die jagdbaren Säugetiere Russlands. Ergänzung: Die Gattung Capra.] Prir. i ochota Moskva 37 8 1909 Beilage (1-16).

[Satunin, K. A.] Сатупинъ, К. А. Амурскія явсной котъ. [Der Amur-Waldkater.] Ochotn. věst. Moskva 9 1909 (148–150). 654

Satunin, K. A. Ueber die Verbreitung der Hyaenen in Russland. N. Balt. Weidm.-blt. Riga 4 1908 (385-386).

[Satunin, K. A.] Сатунинъ, К. А. Къ систематикъ семейства Felidac. [Zur Systematik der Familie Felidae.] Tiflis Mitt. Kauk. Mus. 4 1909 (218–256). 653

Satunin, K. A. vide Turkin, N. V.

Saxlünd, M. A. E. Gjeten og Skogen. [Die Ziege und der Wald.] Kristiania Tidssk. Skogbr. 17 1909 (76-78). 657

Schache, Julius. Vergleichende Histologische Untersuchungen über den Bau der Gallengänge und Beiträge zur vergleichenden Histologie der Leber der Haussäugetiere. Zürich 1908 (1– 105). 658

Schachtschabel, Arthur. Der Nervus facialis und trigeminus des Rindes unter vergleichsweiser Berücksichtigung der gleichnamigen Nerven des Menschen und der Haussäugetiere. Leipzig 1908 (1-69) 4 Taf. 659

Schaffer, Josef und Rabl, Hans. Das thyreo-thymische System des Maulwurfs und der Spitzmaus: I. Teil, Morphologie u. Histologie. Wien Sitz-Ber. Ak. Wiss. Abt. iii 117 1908 (551-659) 4 Taf. und 118 1909 (217-269) 2 Taf. 660

Scharff, R. F. On the Irish Horse and its early history. Dublin Proc. R. Irish Ac. 27 ser. B 1909 (81-86).

†Scharff, R. F. On the evidences of a former land-bridge between Europe and North America. Dublin Proc. R. Irish Ac. 28 ser. B 1909 (1-28).

†Scharff, R. F. On an early Tertiary land-connection between North and South America. Amer. Nat. Lankaster Pa. 43 1909 (514-531). 663

Scharff, R. F. On the occurrence of a speckled Otter in Ireland. Irish Nat. Dublin 18 1908 (141 142) pl. ii.

Schlater, S. Zur Frage vom Ursprung der Chordaten nebst einigen Bemerkungen zu den frühesten Stadien der Primaten-Embryogenese. Anat. Anz. Jena 34 1909 (33-48 65-81). 665

†Schlosser, Max, Birkner, F. und Obermaier, H. Die Bären- oder Bischoferhöhle im Kaisertal bei Kufstein. München Abh. Ak. Wiss. 24 1909 (385–506) 8 Taf.

Schmaltz, Reinhold.

Anatomie des Pferdes.
graphische Myologie.
(vii + 2) 30 Taf.

Atlas der
Tl 2, TopoBerlin 1909
667

Schmid, Johannes. Beitrag zur Entwicklungsgeschichte der Eihäute

TITLES.

von Muscardinus avellanarius. Ansbach 1902 (1-23) 2 Taf. 668

Schmidt, Bruno. Ucber Vererbungserscheinungen beim Rinde: an der Hand von Untersuchungen in einigen Herden, die der "Herdbuchgesellschaft zur Verbesserung des in Ostpreussen gezüehteten Holländer Rindviehes" angehören. Königsberg 1909 (1-59).

Schmitt, Rudolf. Das Nervensystem von Troglodytes niger. Anat. Anz. Jena 34 1909 (286 287). 670

Scholtz, K. Einblicke in das Seelenleben des Pferdes. Karlsruhe Verh. natw. Ver. 21 (1907-08) 1909 SitzBer. (11-13).

Schrauth, Otto. Beiträge zur Entwieklung des Netzbeutels, der Milz und des Pankreas beim Wiederkäuer und beim Schwein. Borna-Leipzig 1909 (1-82) 4 Taf.

Schreitmüller, Wilhelm. Beobach-tungen über den Kampf zwischen Kreuzotter und Igel. Bl. Aquarienkunde Stuttgart 20 1909 (772-774 789-791). 673

Schubert, Friedrich. Beiträge zur Anatomie des Herzens der Haussäugetiere. Dresden 1909 (1-95).

Schulte, H. von W. and Tilney, F. A note on the organisation of the venous return with especial reference to the iliac veins. Anat. Rec. Philadelphia Pa. 3 1909 (555-577).

Schumacher, Siegmund von. Die segmentale Innervation des Säugetiersehwanzes als Beispiel für das Vorkommen einer "kollateralen Innervation". Anat. Hefte Wiesbaden Abt. 1 40 1909 (47-94) 2 Taf. 676

Schumann, Paul. Beiträge zur vergleichenden Histologie des Enddarmes und des Überganges des Mitteldarmes in den Enddarm der Haus-Dresden 1907 (iv + 84) säugctiere. 4 Taf.

Schuster, Ludwig. Vom Eichhorn. Zool. Beob. Frankfurt a. M. 50 1909 (107-108308).

Schuster, Wilhelm. Die Hauskatze. Abstammungsgeschichte, Lebensweise und Charaktereigenschaften mit einem Blick auf ihre Verwandtschaft mit Wildkatzer, Falbkatze u. a. Ihre Bezie-

(E-11091 f)

hung zu Kunst, Dichtung, Philosophie, ihre Rolle im geistigen Leben der Völker. Mit Einleitung v. Edm. Klein. Stuttgart 1909 (1-69). 679

Schwalbe, G. Ueber die Richtung der Haare bei Säugetieren, speziell beim Menschen. Münchener med. Wochenschr. 56 1909 (315-316). 680

Schwalbe, G. Ueber die Richtung der Haare bei den Halbaffen. Reise in Ostafrika v. A. Voeltzkow. Bd 4.] Stuttgart 1909 (207-266) 4 Taf. 681

Schwalbe, G. Kohlbrugge, Die morphologische Abstammung des Menschen. Kritisch besprochen. Globus Braunschweig 93 1908 (341-346).

682 Schwarz, Ernst. Über zwei mit: Trichosurus vulpecula verwandte Kusus. Zool. Anz. Leipzig 34 1909 (625) 626). 683

Schweder, G. Altes und Neues vom-Moschusoehsen. Riga Korr.-blt. Naturf. Ver. 52 1909 (192-195).

Schweitzer, Georg. Über die Lymphgefässe des Zahnfleisches und der Zähne beim Menschen und bei Säugetieren. iii. Topographie. Feinerer Bau bei Säugetieren, nebst. Beiträgen zur Kenntnis der feineren Blutgefässverteilung in der Zahnpulpa und Zahnwurzelhaut. Arch. mikr. Anat. Bonn 74 1909 (927-999) Taf. 685.

Schweyer, Paul. Der Schädel des speciosus Inuus japanensis, Variationskreis und Zahnbau. Anthropologisch - zoologische Untersuchung. München 1909 (1-192).

Schwyter, H. Die Gestaltveränderungen des Pferdefusses infolge Stellung und Gangart. Bern 1906 (viii + 136).

Seabra, A. F. de. Description des types d'albinisme existants dans les collections du Muséum de Lisbonne. Lisbonne Bull. Soc. Port. Sci. Nat. 2 1908 (1-5) 1909 (256-263).

Seabra, A. F. de. S variétés de l'Herpestes Sur quelques ichneumon. Lisbonne Bull. Soc. Port. Sci. Nat. 2 1909 (285-287).

Seabra, A. F. de. Note sur quelques Mammifères de l'Afrique occidentale capturés par Fr. Newton en 1905 et appartenant au Muséum d'Histoire Naturelle de Porto. Coimbra Ann. Ac. Polytech. Porto 4 1909 (1-3). 690

Seabra, A. F. de. Vertebrados enviados da Zambezia (Africa Oriental) pelo missionario Rev. Luiz Lopes: Mammiferos. [Vertebrates sent from Zambesia (East Africa) by the Missionary Rev. Luiz Lopes: Mammals.] Broteria Lisboa 8 1909 (91 92). 691

Seeberger, Adolf. Ueber äussere Körpermasse und deren Beziehungen zu Grösse und Entwicklung von Lunge und Herz bei zwei verschiedenen Schafrassen. Jahrb. wiss. Tierzucht Hannover 4 1909 (lxxiv-exv). 692

[Seidalin.] Сейдалинъ. Гермафродитизмъ у козы. [Hermaphroditismus einer Ziege.] Mess. med. vet. soc. St. Peterburg 21 1909 (665 666). 693

Seillière, Gaston. Sur la digestion de la xylane chez les Mammifères. Paris C. R. Soc. Biol. 66 1909 (691-693). 694

†Selenka, M. und Dubois, Eug. Die fossilen Zähne von Trinil. Amsterdam Tijdschr. K. Ned. Aardr. Gen. ser. 2 26 1909 (398-401). 625

Senft, Max. Myologie der Vorderextremitäten von Hapale jacchus, Cebus macrocephalus und Ateles ater. Bern 1907 (1-42) 21 Taf. 693

Sergi, Quirino. Contributo allo studio dei solchi e dei giri cerebrali nel Gatto domestico. Roma Ric. Lab. anat. norm. 14 1908-09 (213-241) 1 tav.

Seton, Ernest Thompson. Life Histories of North American Animals; an Account of the Mammals of Manitoba. New York N.Y. 1909 2 vols. 698

Seton, E. T. The Biography of a Silver Fox. London 1909. 699

†Sheppard, Thomas. Bison skull at Kelsey. Hull Mus. Publ. No. 60 Quart. Rec. Add. No. 28 1909 (10 11).

Shitkow, B. M. und Sabanejew, L. L. Ueber Ovis heinsii, Sewertz., und über den Bau der Hörner der Wildschafe. Zool. Jahrb. Jena Abt. f. Syst. 28 1909 (457-472).

Shortridge, G. C. An account of the geographical distribution of the Marsupials and Monotremes of Southwest Australia, having special reference to the specimens collected during the Balston Expedition of 1904-7. London Proc. Zool. Soc. 1909 (803-848). 702

Shufeldt, R. W. Americanische Hirsche. Natur und Haus Stuttgart 17 1909 (234–236). 703

Siépi, P. Un Hérisson nouveau pour la France; Erinaceus algirus vagans. Feuille jeunes natural Paris 1909 (24-26). 704

Siffre. Présence sur une mandibule de Gorille d'une quatrième molaire. Paris Bull. mém. soc. anthr. sér. 5 10 1909 (81-82). 705

†Simoens, G. Découverte d'un Mammouth à Bruges. Bruxelles Bull. Soc. géol. 22 1908 (2-5). 706

†Sinclair, J. W. Typotheria of the Santa Cruz beds. Princeton N.J. Rep. Princeton Univ. Exped. Patagonia 1896-9 6 1909 (1-110) pls. i-xi. 707

Sinel, J. The Reptilia, Batrachia and Mammalia of the Channel Islands: their origin and modification by isolation. Guernsey Trans. Soc. Nat. Sci. 1908 (466-478) 1909. 708

[Šišiktorov, L.] ППишикторовъ, Л. Уродливость головы теленка (циклопъ съ хоботообразнымъ придаткомъ). [Misbildung des Kopfes bei einem Kalb (Cyklop mit rüsselförmigen Auswuchs).] Mess. mcd. vet. soc. St. Peterburg 21 1909 (666).

Sivers, Fr. von. Verträgt sich dans Elchwild mit intensiver Forstwirtschaft? N. Balt. Weidm.-blt. Riga 4 1908 (18-21 39-41). 710

[Skriabin, K. I.] Скрябинъ, К. И. Къ казунстикъ аномалій вымени у коровъ. [Zur Kasuistik der Misbildungen des Kuheuters.] Mess. med. vet. soc. St. Peterburg 21 1909 (757–759).

[Skrĭabin, K. I.] Скрябнит, К. II. Dicephalus et rhachischisis—двойное комбинаціонное уродство теленка. [Dicephalus et rhachischisis—eine doppelte Kombinationsmisbildung eines Kalbes.] Mess. med. vet. soc. St. Peterburg 21 1909 (341).

Smith, Miss Helen W. On the development of the superficial veins of the body wall in the Pig. Amer. J. Anat. Philadelphia Pa. 9 1909 (439-462).

Snopek, Fr. Vorkommen von Bibern auf den Herrschaften des Hochund Erzstiftes Olmütz. Zschr. deutsch. Ver. Gesch. Mährens & Schlesiens. 13 1909 (219–221).

Sobotta, Johannes. Zur Entwickelung der Maus (Keimblätter, Allantois, Eihäute etc.). Anat. Anz. Jena 34 ErgH. 1909 (129–133). 715

Soli, U. Contribution à la connaissance de la fonction du thymus chez le Poulet et chez quelques Mammiffres. Arch. ital. biol. Pisa 52 1909 (353-370).

Sommerfeld, Alfred. Über die Entwicklung der Magendrüsen. Arch. Anat. Physiol. Leipzig Anat. Abt. 1909 (373–400) 2 Taf. 7155

Sordelli, Ferdinando. Note su alcuni Vertebrati del Museo civico di Milano: il Quagga (Equus quagga, Gmel.). Milano Atti Soc. ital. sc. nat. 48 1909 (35-42) 1 tav. 716

[Sošestvenskij, N. А.] Сошественскій, Н. А. Поперечно-полосатая мускулатура инцевода лошади. Предв. сообиц. [Die quergestreifte Muskulatur des Schlundes beim Pferde. Vorl. Mitt.] Miss. med. vet. soc. St. Peterburg 21 1909 (782–783).

Soulié, A. et Bonne, C. Contribution à l'étude de l'appareil branchial et des ares aortiques chez les Mammifères: Les cinq ares branchiaux et les six ares aortiques de l'embryon de Taupe. J. anat. physiol. Paris 44 1908 (20-45). 718

Speyer, Artur. Zur Lebensgeschichte der Steinbockformen. Waidmannsheil Klagenfurt 29 1909 (335-340 357-362 379-383 404-408). 719

Spillmann, L. et Bruntz, L. Les néphrophagocytes des Mammifères. Nancy Bul. Soc. Sci. sér. 3 10 1909 (135-138).

Spillman, W. J. Color-factors in Mammals. Amer. Breeders' Assoc. Rep. Washington D.C. 4 1908 (357– 359). 720a

Staderini, Rutilio. Intorno alla eminentia saccularis e al suo signifieato morfologico. Archivio ital. Anat. Embriol. Firenze 8 (116-126) 2 tav. 1909. 721

Staudinger, Wilhelm. Vergleichende Untersuchungen am Skelette der quartären und rezenten Wildrinder Europas: ein Beitrag zur Urgeschichte der Hausrinder, Halle a. S. 1909 (1-36). 722

†Stefanescu, G. Camila fosila din România es te stramosa Cam lelor Dromedera si Camila Salbatica din Africa. [Fossil Camels in Rumania and their relationship to African Camels.] Bucuresti Anal. Ac. Romana 31 No. 4 1909 (1-9) 3 pls. 722a

Stehlin, H. vide Harlé, E.

Steinmann, G. Zur Abstammung der Säuger. Berlin Zeits. Indust. Abstamm. u. Vererbungslehre 2 1909 (65-90). 723

†Sternberg, C. H. The Life of a Fossil Hunter. New York 1909 (xiii p. 286). 724

Stigand, Capt. C. H. The Game of British East Africa. London 1909 (xi + 310).

Stone, Witmer. The Mammals of New Jersey. Ann. Rep. New Jersey State Mus. Trenton 1907 (33-110) pl. 1908. 726

Stracker, Oskar. Die Plica longitudinalis duodeni beim Menschen und bei Tieren. Wien Sitzber. Ak. Wiss. 118 Abt. 3 1909 (375-437) 2 Taf. 727

Strassberger, Oswald. Zum Artikel "Lamas als Nutztiere für deutsche Landwirte und Kolonisten." Zool. Beob. Frankfurt a. M. 50 1909 (22 23). 728

[Stražesko, N. D.] Стражеско, Н. Д. О періодических в колебаніях вровягого давленія, зависящих отъ двятельности сердца. [Ueber die periodischen Schwankungen des Blutdruckes in Abhängigkeit von der Tätigkeit des Herzens.] Kiev 1908 (1–36).

Strubeli, Alexander. Die Immunität des Igels gegen echte Toxine, seine Widerstandsfähigkeit gegen banale Gifte. Münchener med. Wochenschr. 53 1909 (2524–2526).

Stubbs, F. J. Leisler's Bat in Longdendale. Lancashire Nat. Darwen ser. 2 2 1909 (152). 731

†Studer, Th. Schädel eines Hundes aus einer prähistorischen Wohnstätte der Hallstattzeit bei Karlstein, Amtsgericht Reichenhall. Bern Mitt. Natf. Ges. 1907 (155-168). Suomalainen, E. W. Vieläkin naaleja, Rusakkojänis. [Funde von Canis lagopus und Lepus europaeus in Finland.] Luonnon Ystävä Helsingfors 13 1909 (49-50). 733

Sweet, Miss Georgina. The eyes of Chrysochloris hottentota and C. asiatica. Q. J. Mier. Sci. London 53 1909 (527-537) pl. vi. 784

[Т., А.]. Зоологическія мелочи. [Zoologische Miscellen.] Ochotn. Věst. Moskva 9 1909 (234 235). 725

Teidoff, Edgar. Unsere einheimischen Mäusearten und ihre Bekämpfung. N. Balt. Weidm.-blt. Riga 4 1908 (404–407). 736

Thomas, Oldfield. A new Rat from Guatemala. London Proc. Zool. Soc. 1909 (669 670). 737

Thomas, O. Some Mammals from N.E. Kimberley, Northern Australia. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (149-152). 738

Thomas, O. On Mammals collected in Turkestan by Douglas Carruthers. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (247-266). 739

Thomas, O. On the N. Australian Rats referred to the genus Mesembriomys. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (372-374). 740

Thomas, O. New species of Paradoxurus of the P. philippinensis group, and a new Paguma. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (374-377).

Thomas, O. New species of *Œcomys* and *Marmosa* from Amazonia. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (378–380).

Thomas, O. The generic arrangement of the African Squirrels. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (467-475).

Thomas, O. New African small Mammals in the British Museum. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (98-112).

Thomas, O. A new Gibbon from Annam. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (112 113). 745

Thomas, O. Two new Mammals from N. Australia. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (197 198). Thomas, O. Notes on some South American Mammals, with descriptions of new species. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (230-242). 747

Thomas, O. Four new African Squirrels. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (476-479). 748

Thomas, O. A collection of Mammals from northern and central Mantchuria. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (500-505). 749

Thomas, O. New African Mammals. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (542-549). 750

Thomas, O. and Wroughton, R. C. On a collection of Mammals from western Java presented to the National Museum by Mr. W. E. Balston. London Proc. Zool. Soc. 1909 (371-392). 751

Thomas, O. and Wroughton, R. C. Two new Macaques from W. Java. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (380 381). 752

Thomas, O. and Wroughton, R. C. Diagnoses of new Mammals collected by Mr. H. C. Robinson in the Malay Peninsula and Rhio Archipelago. Ann. Mag. Nat. Hist. London ser. 8 3 1609 (439-441).

Thomas, O. and Wroughton, R. C. Diagnoses of new Mammals collected by Mr. H. C. Robinson in the Islands of the Straits of Malacca. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (534-536).

Thomas, O. and Wroughton, R. C. Mammals from the Rhio Archipelago collected by Messrs. H. C. Robinson, C. Boden Kloss and E. Seimund, and presented to the National Museum by the Government of the Federated Malay States. Kuala Lumpur J. Fed. Malay States Mus. 4 1909 (99–128). 755

Thomson, Robert B. Scottish National Antarctic Expedition: Osteology of Antarctic Seals. Edinburgh Tr. R. Soc. 47 1909 (187-201) pl. 753

Tilney, F. vide Schulte, H. von W.

Tokarski, Julian. Przyczynek do znajomości organów szczątkowych w języku i podjęzyku zwierząt ssących. [Organes rudimentaires dans la langue et l'hypoglossis des Mammifères.] Stanisławów Sprawozd, dyrekcyi gimnazyum I 1909 (28).

Toldt, K. Ueber den vermeintlichen Bärenembryo mit Stachelanlagen. Zool. Anz. Leipzig 34 1909 (606 607). 758

Toldt, K. Studien über das Haarkleid von Vulpes vulpes L. nebst Bemerkungen über die Violdrüse und über den Haeckel-Maurerschen Bärenembryo mit Stachelanlagen. Wien Ann. Nat. Hist. Hofmus. 22 1909 (197– 269) 3 Taf.

Toldt, K. Betrachtungen über das Haarkleid der Säugetiere. Wien Verh. ZoolBot. Ges. 53 1909 (271–277). 760

†Toula, Franz. Diluviale Säugetierreste vom Gesprengberg, Kronstadt in Siebenbürgen. Wien Jahrb. Geol. Rehs. 59 1909 (575-614) pls. xv xvi.

Trautmann, Alfred. Die Muskulatur in den Dünndarmzotten der Haustiere. Anat. Anz. Jena 34 1909 (113–125). 762

Trautmann, A. Beiträge zur vergleichenden Histologie des Dünndarmes der Haussäugetiere. Zürich 1907 (viii + 158) 7 Taf. 763

Trautmann, A. Die makroskopischen Verhältnisse der Hypophyse einiger Säuger. Arch, Tierheilk. Berlin 35 1909 (615-637).

Tregarthen, J. C. The Life Story of an Otter. London 1909 (1-186). 765

Trinchieri, Giuseppe. Ricerche intorno alla distribuzione dell'elemento muscolare nell'esofago del Cane. Biologica Torino 2 No. 12 1909 (1-12). 766

Trouessart, E. L. Le Takin Budorcas taxicolor du Tibet. Nature Paris 37 1909 (115-117). 767

Trouessart, E. L. Les Kangourous grimpeurs ou dendrolagues. Nature Paris 37 1909 (391–392). 768

Trouessart, E. L. Les grandes chasses dans l'Afrique Equatoriale. Rev. Sci. Paris 47 1909 (227–237). 769

Trouessart, E. L. Le Rhinocéros blane du Soudan (Rhinoceros simus cottoni). London Proc. Zool. Soc. 1909 (198-200) pls. xxix-xxxi. 770

Trouessart, E. L. Neotetracus sinensis, a new Inscetivore of the family Erinaceidae. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (389–391). 771

True, Frederick W. Observations on living White Whales (Delphinapterus leucas); with a note on the

dentition of Delphinapterus and Stenodelphis. Washington D.C. Smithson. Miscell. Coll. 52 1909 (325-330) pl. xxiii. 772

†True, F. W. A new genus of fossil Cetaceaus from Santa Cruz Territory, Patagonia; and description of a mandible and vertebrae of Prosqualodon. Washington D.C. Smithson. Miscell. Coll. 52 1909 (441-456) pls. xliii-xlvi.

True, F. W. Occurrence of the Killer Whale (Orcinus orca) on the New Jersey coast. Science New York N.Y. ser. 2 29 1909 (790 791).

†True, F. W. A further account of the fossil Sea Lion, Pontolis magnus, from the Miocene of Oregon. In W. H. Dall's Miocene of Astoria and Coos Bay, Oregon. Washington D.C. Dept. Int. U. S. Geol. Surv. Prof. Papr. 52 1909 (143-148) pls. xxi-xxiii.

[Tshirvinsky, N.] Чирвинскій, Н. Развитіє костяка у овецъ при неромальныхъ условіяхъ, при недостаточномъ питаніи и послі кастраціи самцовъ въ раннемъ возрастѣ. [Le développement du squelette ehez les Moutons dans les conditions normales, dans les eouditions de nutrition insuffisante et après la castration precoee des mâles.] Kiev Iżv. politeehn. Inst. 9 1 1909 (1-304) 7 Taf. 776

Tur, Jan. Observations sur la perversion de l'instinet maternel. Bul. sci. France-Belgique Paris 43 1909 (477-480). 777

[Turkin, N. V. und Satunin, K. A.] Туркинъ, Н. В. и Сатунинъ, К. А. Звъри Россіи. [Die jagdbaren Säugethiere Russlands.] Prir. i ochota Moskva Prämie 1907 12 (891-914).

Turner, Sir William. The skeleton of a Sowerby's Whale (Mesoplodon bidens) stranded at St. Andrews, and the morphology of the manus in Mesoplodon, Hyperoidon and the Delphinidae. Edinburgh Proc. R. Soc. 29 1909 (687-720).

Turowski, Herbert. Ueber das Verhalten der körperl. Elemente zu einander im normalen Rinderblut. Berlin 1908 (1-40).

Ungár, Adolf. A bivalyok albinizmusáról. [Über den Albinismus der Büffel.] Állatorv. L. Budapest 32 1909 (638-640). 781

[Valedenskij, V. А.] Валединскій, В. А. Матеріалы къ вопросу о присутствін и мъстонахожденій нервныхъ узловъ въ желудкахъ сердца иткоторыхъ млекопитающихъ. [Beiträge zur Frage über die Anwesenheit und die Lage von Nerven-Knoten in den Herzkammern ciniger Säugetiere.] Tomsk Izv. Univ. 34 1909 (1-62) 2 Taf.

Váli, Ernő. Adatok a hazai rágcsáló emlősök hangvezető kérzülékének ismeretéhez. [Beiträge zur Kenntnis des Gehörapparafes der Nagetiere Ungarns.] M. Orv. Archiv. Budapest 10 1909 (135–160) 6 Taf. 783

Vālikangas, Ilmari. Rusakkojāniksen levenemisestā Etelā-Savossa. Lüber das Vorkommen von Lepus europaeus in Süd-Savo.] Luonnon Ystävä Helsingfors 13 1909 (114).

Van der Stricht, O. La structure de l'œuf des Mammifères (Chauvesouris) Vesperugo noctula. Troisième partie: l'oceyte à la fin du stade d'aceroissement, au stade de la maturation, au stade de la fécondation et au début de la segmentation. Bruxelles, Mém. Acad. roy. 4to. sér. 2 2 1909 (1-176) 7 pls.

Van der Stricht, O. La structure de l'œuf de Chienne et la genère du corps jaune. C. R. Ass. Anat. Paris 10 Naney 1908 (1-9). 785a

Vasse, William. Three Years' Sport in Mozambique; translated from the French by R. & H. M. Lydekker. London 1909 (xiv + 164). 786

4 1909 (108-116). 796

7 [Vollosov. č., K. A.] Воллосовичь, К. A. Раскопки Санга-юрахскаго мамонта въ 1908 г. [Ехсаvation du Mam-

Vastarini, Cresi G. Una differenza istologica non ancora rilevata tra il vaso afferente e il vaso efferente del glomerulo renale dei Mammiferi. Anat. Anz. Jena 34 1909 (94-105). 787

Veit, O. Über das Vorkommen von Vornierenrudimenten und ihre Beziehungen zur Urniere beim Menschen. Marburg SitzBer. Ges. Natw. 1969 (193-223).

Venning, F. E. W. Habitat of the Chinese pangolin (*Manis aurita*). Bombay J. Nat. Hist. Soc. 19 1909 (254-256). 789

[Vergilesov S. V.] Вергилесовъ, С. В. Къ морфологін начала груднаго

протока и его расширенія у млекопитающихъ. [Zur Morphologie des Anfanges des Ductus thoraeici und seiner Erweiterung bei den Säugetiercn.] Tomsk Izv. Univ. 35 1909 (1-32) 3 Taf. 790

Vermeulen, N. A. Die Tuba auditiva beim Pferde und ihre physiologische Bedeutung. Morph. Jahrb. Leipzig 40 1909 (411-479) 2 Taf. 791

Virchow, Hans, Über die Wirbelsäule des Schimpansen. Berlin Sitzber-Ges. Naturf. Fr. 1909 (265-260). 792

Virchow, H. Die sagittale Flexion am Hinterhauptsgelenk von Säugetieren. Berlin SitzBer. Ges. Naturf. Fr. 1909 (418-437).

Virehow, H. Über die Rückenmuskeln eines Schimpanse. Arch. Anat. Physiol. Leipzig Anat Abt. 1909 (137-174).

Virchow, H. Bezahnungspräparate nach Form, erläutert an einem solchen, des Rehbockes. Arch. Anat. Physiol. Leipzig Anat. Abt. 1209 (281-293). 794.

Voit, Max. Ueber einige neuere Ergebnisse am Primordialcranium der Säugetiere. Anat. Anz. Jena 34 Erg H. 1909 (139-147). 755

[Voitichov, V.] Войтиховъ, В. Соболи въ неволѣ. (Попытка ихъразведенія. [Die Zobel in der Gefangensehaft. Ein Versuch dieselben zu züchten.] Naturfreund St. Peterburg 4 1909 (108–116).

†[Vollosov. č, K. А.] Воллосовичъ, К. А. Раскопки Санга-юрахскаго мамонта въ 1908 г. [Excavation du Mammouth de Sanga-jurach en 1008.] St. Peterburg Bull. Ac. sc. ser. 2 1909 (437-458).

Vosseler, J. Der Silbergraue Erdwühler (Georychus cinereo-argentatus), in der Gefangenschaft. Zool. Beob. Frankfurt a. M. 50 1909 (33-35). 798:

Wadén, D. J. Sentida kamp mellan älgtjurar. [Später Kampf zwischen männlichen Elchen.] F. Jaktl.dn. Helsingfors 3 1907 (61).

Wagner, Richard. Histiologische und anatomische Untersuchungen überdie männlichen Geschlechtsorgane, insbesondere den Penis von Felis domestica. Dresden 1909 (1-55) 2 Taf. ECO Wahnlund, Aarni. Hvita ekorrar. [Weisse Exemplare von Sciurus vulgaris.] F. Jaktlidn. Helsingfors 3 1908 (404).

Walther, Ad. Zwei Beiträge zur Kenntnis des Pferdeblutes. Arch. ges. Physiol. Bonn 123 1808 (233-248). 802

Walter, Curt. Die Sehnenscheiden und Schleimbeutel der Gliedmassen des Hundes. Dresden 1908 (1-71) 3 Taf. 803

†Wanderer, K. Der erste Fund eines Moschusochsen im Diluvium des Königreiches Sachsen. Dresden Sitz-Ber. Isis 1909 (79-85) pl. iii 1910. 204

Ward, Henry L. The American Elk in southern Wisconsin. Milwaukee Bull. Wis. Nat. Hist. Soc. 6 1908 (145 146). 865

Warren, Edward R. Further notes on the Mammals of Colorado. Colorado Coll. Publ. Engineer. ser. 1 1908 (59-90). 806

Warren, E. R. A new Chipmunk from Colorado. Washington D.C. Proc. Biol. Soc. 22 (105 106). 807

Warren, E. R. Additional records of the Alleghenian Least Weasel in Wisconsin. Milwaukce Bull. Wis. Nat. Hist. Soc. 7 1909 (11 12). 807a

Watson, John B. Some experiments bearing upon color vision in Monkeys. Journ. Comp. Neurol. & Psychol. Philadelphia Pa. 19 1909 (1-28). 808

Weber, A. L'origine de l'appareil pulmonaire chez les Mammifères. Bibliogr. anat. Nancy 17 1008 (16-21).

Wegner, Richard N. Überzählige Incisiven bei Affen. Zeits. Morph. Anthrop. Stuttgart 12 1909 (353-358).

Welch, F. D. A comparative examination of three living specimens of Felis tigris sondaica, with notes on an old Javan male. London Proc. Zool. Soc. 1209 (892 893).

Welch, F. D. On change of colour in a specimen of Mellivora ratel living in the Society's Gardens. London Proc. Zool. Soc. 1209 (889-891). 811

Westell, W. P. The Animals and their story. London 1909 (1-322). 812

Whitaker, Arthur. Notes on Bats... Naturalist London 1909 (71-77) pls. iř iii. 813

Widakowich, Victor. Ueber die erste Bildung der Körperform bei Entypie des Keimes; Beiträge zur-Entwicklungsgeschichte der Ratte. Zs. wiss. Zool. Leipzig 94 1909 (240– 298) 3 Taf.

Wiemeyer, B. Das Vorkommen der Schläfer (Myoxidae) in der Gegend von Warstein. Münster Jahresber. ProvVer. Wiss. 37 1909 (54-58). 815

Williams, E. M. Vergleichend anatomische Studien über den Bau und die Bedeutung der Oliva inferior der Sängetiere und Vögel. Arb. neurol. Inst. Wien Leipzig 17 1908 (118–149).

Williams, S. R. On hibernation in the Raceoon. Ohio Nat. Columbo-Ohio 9 1909 (495 496). 816a.

Wilson, James A. The origin of the Dexter-Kerry breed of Cattle. Dublin. Sci. Proc. R. Soc. 12 1909 (1-17) 4 pls.

Wilson, J. A. The colours of Highland Cattle. Dublin Sci. Proc. R. Soc. ser. 2 12 1909 (66-76). 818.

Wilson, J. A. The Scandinavian origin of the Hornless Cattle of the British Isles. Dublin Sci. Proc. R. Soc. 12 1909 (145-164). 819

Wimmer, J. Griechische Säugetiere in geschichtlichen Zeiten. Natur u. Kultur München 6 1909 (705-710 744-748). 820

†Winge, Herluf. Om Plesiocetus og Squulodon fra Danmark. [On Plesiocetus and Squalodon from Denmark.] Kjöbenhavn Nath. Medd. 1209. (1-37) pls. i ii.

Wolff, F. Vergleichend anatomische Untersuchungen über die Schwanzmuskulatur von Hapale jacchus, Cebusmucrocephalus und Ateles ater. Hannover & London 1908 (1-31) 6 Taf. 822.

Wolfrum, M. Untersuchungen überdie Macula lutea der höheren Säugetiere. Ber. ophthalm. Ges. Wiesbaden 35 1908 (206–212) 1909. 823.

†Woodward, B. H. Extinet Marsupials of Western Australia. Geol. Mag. London decade 5 6 1909 (210 211). 824. Wright, W. H. The Grizzly Bear, the narrative of a hunter naturalist, historical, scientific and adventurous. London 1909 (x + 274).

Wroughton, R. C. New species of Dendromus and Tatera. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (246-247).

Wroughton, R. C. Four new African Mammals. Ann. Mag. Nat. Hist. London ser. 8 3 1909 (514-517). 827

Wroughton, R. C. East African forms of Arvicanthis abyssinicus. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (536-539).

Wroughton, R. C. New Muridae from British East Africa. Ann. Mag. Nat. Hist. London ser. 8 4 1909 (539– 542). 829

Wroughton, R. C. vide Thomas, O.

[Wrublevskij, K.] Врублевскій, К. М. Письмо изъ Біловіжской Пущи. [Brief aus dem Wald von Rělověž.] Mess. med. vet. soc. St. Peterburg 21 1909 (286-288 364-369 383-386). 830

†Würtenberger, O. Fossilien aus der Thurgauer Molasse. Frauenfeld Mitt. Thurg. Natf. Ges. 18 1908 (61 62). 831

†Wüst, E. Eine neue Säugetiergattung (*Praeovibos*, W. Staudinger). Zs. natw. Stuttgart 80 1909 (176-178).

Yakimoff, W. L. und Kohl, Nina, vide Jakimov, V. L. und Kohl, Nina.

Yermoloff, A. The Bisons of the Caucasus. [Translated from La Nature, Paris.] Washington D.C. Smithsonian Inst. Rep. 1906 1907 (345-353) pl. 833

[Zaletajev, А.] Залетаевъ, А. Случай уродливости у коровы. [Eine Misbildung bei einer Kuh.] Mess. mcd. vet. soc. St. Peterburg 21 1909 (486).

Zarnik, B. Über den feineren Bau der Niere von Echidna. Würzburg SitzBer. physik. Ges. 1909 (44). 855

[Zarudny, N.] Зарудный, Н. Зам'ьтка о гіспахъ. [Bemerkung über die Hyaenen.] Semja ochotn. Moskva 1909 (115-117).

†Zdarsky, A. Die miocäne Säugetierfauna von Leoben. Wien Jahrb. Geol. RehsAnst. 53 1909 (245-288) 3 Taf. 837

Zell, Th. Ist der Hund von Hause aus ein Tagtier oder Nachttier? Wild u. Hund Berlin 15 1909 (241-244). 838

Ziehen, Th. Zur Kenntnis des Faserverlaufs im Gehirn von Orycteropus. Jena Denskehr. med. Ges. 15 1909 (477-510).

Zimmermann, Á. Az Ehrlich-féle durva szemecskés, ú. n. hízósejtek előfordulása tengeri malacz (Cavia cobiya) szerveiben. [Über das Vorkommen der Ehrlich'schen grobkörnigen, sogenannten Mastzellen in den Örganen des Meerschweinehens (Cavia cobaya).] Közlem. az összeh. élet-és kórt. kör. Budapest 8 1909 (i-ii). 840

Zimmermann, Á. A kutya ujjainak idegágairól. [Über die Nervenzweige der Zehen des Hundes.] Közlem. az összeh. élet-és kórt. kör. Budapest 8 1909 (65-78). 841

Zimmermann, Á. Adatok a szarvasmasha tejmirigyének szövettanához, különös tekintettel a magoszlási alakokra. [Beiträge zur Histologie der Milchdrüse des Rindes, mit besonderer Rücksicht auf die Kernteilungsfiguren.] Közlem. az összeh. élet-és kórt. kör. Budapest 8 1909 (131–148).

Zimmermann, Á. A ló csűdizületének szalagai. [Über die Bänder des Fesselgelenkes beim Pferde.] Állatorv. L. Budapest 32 1909 (321-327).

843

Zimmermann, Rud. Weiteres über das Vorkommen des Siebenschläfers (Myoxus glis) im Königreich Sachsen. Zool. Beob. Frankfurt a. M. 50 1909 (108-110 281); Bemerkung dazu v. O. Boettger. t.c. (309). 844

[Žitkov, В. М.] Житковъ, Б. М. Офверный олень, какъ доманніе животное. [Das Renntier als Haustier.] Selisk. choz. i lěsov. St. Peterburg 69 1909 (211—283).

Zuckerkandl, E. Zur Morphologie des Musculus ischiocaudalis (iii. Beitrag). Wien SitzBer. Ak. Wiss. Abt. iii 117 1908 (125-130) Taf. 846 Zuckerkandl, E. Ueber den Jacobson'schen Knorpel und die Ossifikation des Pflugscharbeines. Wien SitzBer. Ak. Wiss. Abt. iii 117 1908 (493-547) 2 Taf. 847

Zungwitz, M. Knochengerüst (Skelet) des Pferdes, eirka † natürliche Grösse. Hannover 1909 4 Taf. 848

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HOMINIDAE.

†Diprothomo platensis, sp. n., (?) Tertiary, Buenos Aires, Ameghino, Buenos Aires, An. Mus. Nac., 19, p. 107.

Homo (†) mousteriensis hauseri, subsp. n. Tertiary, Moustier, Dordogne, Klaatsch vide eliam Reinhardt, Natwis. Wochsenehr., ser. 2, 8, p. 323; (†) primigenius, etc., notes, Aranzadi, Bol. Soc. Esp. Hist. Nat., 9, p. 316.

†Pithecanthropus erectus, Zähne (?), SELENKA und DUBOIS, Tijdsehr. K. Ned. Aardr. Gen., ser. 2, 26, p. 398; notes, Elbert, Bonn, Sitzber. Ges. Natk., 1908, 1909, med. natw. Ges., Münster, p. 51.

SIMILDAE.

Anthropopithecus gorilla, présence d'une quatrième molaire, SIFFRE, Paris, Bul. mém. soc. anthr., sér. 5, 10, p. 81.

Hylobates, Penis- und Clitorisknochens, Gerhardt, Anat. Anz., Jena, 35, р. 353; gabriellae, sp. n., Anam, Тномая, Ann. Mag. Nat. Hist., ser. 8, 4, р. 112.

Simia und Hylobates, Histologie des Ovariums, Joseph, Wien, Arb. Zool. Inst. Univ., 18, p. 183.

Troglodytes niger, vertebral column, Vinchow, Sitzber. Ges. Naturf. Fr. 1909, p. 265; Nerven-system, Schmitt, Anat. Anz., 34, p. 286; Rückenmuskeln, Virchow, Arch. Anat. Physiol., Anat. Abt., 1909, p. 137.

CERCOPITHECIDAE.

Cercopithecus ascanius whitesidei, Cent. Congo, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 513; tantalus alexandri, Lake Chad, Pocock, Proc. Zool. Soc. 1908, p. 545; insolitus, N. Nigeria, p. 258, tantalus griseistictus, Monbuttu, p. 259, rubellus, Fort Hall, p. 261, sticticepe, Equatoria, silaceus, B. E. A., p. 263, princeps, Nepanga Forest, p. 304, Elliot, Ann. Mag. Nat. Hist., ser. 8, 4; spp. & subspp. n.

Colobus graueri, p. 474, ellioti, p. 475, spp. n., Central Africa, Dollman, Ann. Mag. Nat. Hist., ser. 8, 4.

Erythrocebus formosus, Uganda, p. 264, albigenis, E. Sudan, p. 265, spp. n., Elliot, Ann. Mag. Nat. Hist., ser. 8, 4.

Hamadryas arabicus, birth of twins at Hannover, Knottnerus-Meyer, Berlin, Sitzber. Ges. naturf. Fr., 1909, p. 84.

Inuus speciosus, cranial variation, Schweyer, No. 686.

Macaca mordax, p. 380, resima, p. 381, spp. n., W. Java, Thomas & Wroughton, Ann. Mag. Nat. Hist., ser. 8. 3.

Macacus rhesus, Utérus bicornis, Bernstein, No. 79.

Papio tessellatum, Uganda, nigeriae, N. Nigeria, p. 247, brockmani, Somaliland, p. 248, planirostris, Fan, p. 305, spp. n., Elliot, Ann. Mag. Nat. Hist., ser. 8, 4.

Pithecus antedates Macacus, p. 250, littoralis, Fokier, p. 250, brachyurns, Hainan, p. 251, validus, Cochin China, p. 252, alacer, Kundur I., p. 253, karimoni, Karimon I., p. 254, laetus, Tingi I., p. 255, dollmani, Changi I., p. 256, bintangensis, Bintang I., p. 257, spp. n., Elliot, Arn. Mag. Nat. Hist., ser. 8, 4.

Presbytis cristata pullata, Rhio Arch., ser. 8, 3, p. 439, obscura carbo, Langkawi I., Malacca, 4, p. 564, Thomas and Wroughton, Ann. Mag. Nat. Hist., gnitus, N. Borneo, Dollman, ibid. 4, p. 204; nudifrons, Borneo, p. 266, melamera, Burma, p. 267, rubigena, Malacca, p. 268, dilecta, Selangor, p. 270, margarita, Anam, crepuscula, Burma, p. 271, c. wroughtoni, Siam, p. 272, lania, Chumbi Valley, p. 273, Elliot, t.c.; spp. et subsp. n.

Simia sphinx, Linn. = Mandrill, & Papio sphinx, Auct. = P. papio, ELLIOT Ann. Mag. Nat. Hist., ser. 8, 4, p. 417.

CEBIDAE AND HAPALIDAE.

Brain, Holl, Wien, SitzBer. Ak. Wiss., Abt. iii, 117, p. 9; Hapale jacchus, cas de reproduction, Paris, Paris, Bul. soc. zool., 33, p. 147; Myologio der Vorderextremitäten, Hapale, Cebus und Ateles, Senft, No. 696; Schwanzmuskulatur von Hapale, Cebus und Ateles, Wolff, No. 822.

Actus roberti, Brazil, p. 199, nigricepe, senex, Peru, p. 200, gularis, Ecuador, p. 201, lanius, Colombia, p. 202, microdon, Ecuador, p. 203, spp. n.,

DOLLMAN, Ann. Mag. Nat. Hist., scr. 8 4.

Callicebus paenulatus sp. n. Ecuador, Elliot, Ann. Mag. Nat. Hist., ser. 8, 4, p. 244.

Cebus capucinus nigripectus, subsp. n., Colombia, p. 229, malitiosus, sp. n., Colombia, p. 230, notes on Simia capucinus & C. apella, Linn., p. 227; Elliot, Bull. Amer. Mus. Nat. Hist., 26.

Lagothrix thomasi, Peru, p. 245, ubericola, Amazonia, p. 246, spp. n., Elliot, Ann. Mag. Nat. Hist., ser. 8, 4.

Pithecia, anatomy, Beddard, Proc. Zool. Soc., 1909, p. 928.

B.-Lemuroidea.

Cytoarchitektonische Cortexgliederung der Halbaffen, BRODMANN, J. Psychol., 10, ErgH. 1908, p. 287. Richtung der Haare bei den Halbaffen, SCHWALBE, No. 681.

Galago braccatus albipes, subsp. n., Elgon distr., Dollman, Ann. Mag. Nat. Hist., ser. 8, 4, p. 549.

Lemur catta, carpal vibrissae, Brandes-Halle Verh. Ges. D. Natf., 80, 2, p. 196.

Loris, breeding in captivity, Pearless, Spol. Zeylan., 6, p. 134.

Nycticebus menagensis (Lydekker) 1893 technical name of Philippine Slow Lemur, Lyon, Washington, Proc. Biol. Soc., 22, p. 89.

CHIROPTERA.

Notes on British, WHITAKER, Naturalist, 1909, p. 71, of Ruwenzori, Festa, No. 227; Spermien, Ballowitz, Anat. Anz., 34, p. 275; oeuf, Van der Stricht, Bruxelles, Mém. Acad. roy. 4to., sér. 2, 2, p. 1; des Kaukasus, Satunn, Tiflis, Mitt. Kauk. Mus., 4, p. 279; circulation du sang dans l'aile, Jolly, Arch. anat. miscrosc. 11, p. 94; Funktionelle Anpassung am Fledermausmagen, Fischer, No. 231; Gouv. St. Petersburg und Tver, Bianchi, St. Peterburg, Ann. mus. zool., 14, p. vii.

PTEROPODIDAE.

Acerodon mackloti alorensis, gilvus, Lesser Sunda Is., humilis, Talant Ids., p. 25, jubatus mindanensis, Mindanao, p. 26, spp. et subspp. n., An-DERSEN, Ann. Mag. Nat. Hist., ser. 8, 3.

Cynopterus (Niadius) harpax, sp. n., Selangor, Thomas & Wroughton, Ann. Mag. Nat. Hist., ser. 8, 3, p. 439.

Desmalopex = Pteropus, Andersen, Ann. Mag. Nat. Hist., ser. 8, 3, p. 233.

Dobsonia sumbana, Sumba I., p. 531, crenulata, Ternate, praedatrix, Duke of York Gp., inermis, San Christobal, nesca, Solomon Gp., p. 532, spp. n., Andersen, Ann. Mag. Nat. Hist., ser. 8, 4.

Pterdlopex, characters, p. 218, anceps, sp. n., Bougainville I., Solomons, p. 206, Andersen, Ann. Mag. Nat. Hist., ser. 8, 3.

Pteropus auratus, Loyalty Is., Andersen, Ann. Mag. Nat. Hist., ser. 8, 3, p. 233; (Spectrum) voeltzkowi, Pemba I., Marschie, Berlin, Sitzber. Ges. Nat. Freunde, 1909, p. 486; hypomelanus robinsoni, Rubia I., Malacca, Andersen, Ann. Mag. Nat. Hist., ser. 8, 4, p. 534; spp. et subsp. n.

Rousettus kempi, Mt. Elgon, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 543; shortridgei, Java, Thomas & Wroughton, Abstr. P. Z. S. 1909, p. 19, and Proc. Zool. Soc., 1909, p. 374; spp. n.

RHINOLOPHIDAE.

Hipposiderus demissus, sp. n., E. Solomon Is., Andersen, Ann. Mag. Nat. Hist. ser. 8, 3, p. 268.

Rhinolophus canuti, Java, Thomas & Wroughton, Abstr. P. Z. S. 1909, p. 18, & Proc. Zool. Soc., 1909, p. 378; anderseni, Philippines (? Luzon), Cabrera, Bol. Soc. Españ. Hist. Nat. 9, p. 306, spp. n.; ferrum-equinum Merkmale der Kaukasischen Exemplare, Satunn, Tiflis, Mitt. Kauk. Mus. 4, pp. 279, 295.

NYCTERIDAE.

Nycteris, Borkhausen, 1797, replaces Lasiurus, Gray, 1831. MILLER, Washington, Proc. Biol. Soc., 22, p. 90.

Otonycteris cincreus, sp. n., Persian Baluchistan, SATUNIN, Tiflis Mitt. Kauk. Mus., 4, 1909, pp. 281, 297.

Petalia, Gray, 1838, replaces Nycteris, Geoffroy, 1803, MILLER, Washington, Proc. Biol. Soc., 22, p. 90.

VESPERTILIONIDAE.

Chalinolobus rogersi, sp. n., N. Australia, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 150.

Miniopterus medius, Java, Thomas & Wroughton, Proc. Zool. Soc., 1909, p. 382; breyeri, Transvaal, Jameson, Ann. Mag. Nat. Hist., ser. 8, 4, p. 471; spp. n.

Myotis capitaneus, micronyx, Lower California, Nelson & Godman, p. 28, occultus, California, Hollister, p. 43, bayleyi, New Mexico, Hollister, p. 44, grisescens, Tennessee, Howell, p. 46, Washington, P. Biol. Soc., 22, spp. n.

Pipistrellus leisleri in Lancashire, STUBBS, Lancashire Nat., ser. 2, 2, p. 152.

Scotoecus albigula, sp. n., Mt. Elgon, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 544.

Vespertilio oxygnathus, note, MILLER, Napoli, Ann. Mus. Zool., ser. 2, 3, No. 3, p. 1; murinus aus Ciskaukasien, Satunin, Tiflis Mitt. Kauk. Mus. 4, pp. 282, 298.

EMBALLONURIDAE.

Rhinopoma microphyllum en Tunisie, Olivier, Paris, Bul. soc. zool., 34, p. 148.

Taphozous hildegardae, sp. n., Mombasa, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 99.

PHYLLOSTOMATIDAE.

Vanpyressa nymphoea, Colombia, p. 230, thyone, Ecuador, p. 231, spp. n., Thomas, Ann. Mag. Nat. Hist., ser. 8, 4.

INSECTIVORA.

Phylogeny, affinities & American Eocene forms, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 502; of Ruwenzori, Festa, No. 227; brain, Haller, Jenais, Zeits., 45, p. 279.

GALAEOPITHECIDAE.

Galeopterus chambolis, sp. n., Pulo Jombol, Rhiolinga Areh., Lyon, U. S. Nat. Mus. Proc., 36, p. 486.

MACROSCELIDIDAE AND TUPATIDAE.

Anatomy and relationships, Carlsson, Zool. Jahrb., Abt. f. Syst., 28, p. 349.

Elephantulus rupestris jamesoni, subsp. n., Transvaal, Chubb, Ann. Transvaal Mus., 1. p. 181.

Tupaia lacernata, sp. n., Langkawi I., Malacea, Thomas and Wroughton, Ann. Mag. Nat. Hist., ser. 8, 4, p. 535.

TALPIDÆ.

Myogale pyrenaica, distribution and habits, Marcallhou-d'Ayméric, Autun, Bull. Soc. Hist. Nat., 20, C. R., p. 112; note, Margier, Feuille jeunes natural., 39, p. 70.

†Myolestes, g. n., for M. dasypelix, sp. n., Bridger Eocene, MATTHEW, Mem. Amer. Mus. Nat. Hist., 9, p. 541.

†Nyctitherium curtidens, sp. n., Bridger Eoeene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 539.

Talpa europaea, Biologie, Kazzander, Anat. Anz., 34, p. 394; ares branchiaux, Soulie et Bonne, J. anat. physiol., 44, p. 20; breeding-habits, Adams, Manchester, Mem. Lit. Phil. Soc., 54, No. 2; Involution des Uterus, Moll, No. 510; Entwicklung der Venae anonymae und Thymus, Anikify, St. Peterburg, Izv. voen. med. Akad. 19, p. 3; thyroid-thymus system, Schaffer und Rabl, Wien, Sitzber. Ak. Wiss., 117, Abt. 3, p. 551; canalicule séminifère, Lécaillon, Paris, C. R. Acad. sci., 148, p. 664; coeca caucasica, Verbreitung, Satunin, Mitt. Kauk. Mus., 4, pp. 275, 291.

. Soricidæ.

Crocidura nanilla, Uganda, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 99; kijabue, Kijabe, B. E. Africa, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 173; spp. n.

Neomys milleri in Nantes, Gourdon, Nantes, Bull. Soc. Sei. Nat., sér. 2, 9, p. 155. Sorex araneus, thyroid-thymus system, Schaffer und Rabl, Wien, Sitzber. Ak. Wiss., 117, Abt. 3, p. 551; merriami, note, p. 51, leucogenys, sp. n., Utah, p. 52, Oscood, Washington, Proc. Biol. Soc., 22; lagunae, sp. n., californicus juncensis, subsp. n., Low. California, Nelson and Goldman, t.c., p. 27.

ERINACEIDAE.

Erinaceus europaeus, embryo, Toldt, Ann. Nat. Hist. Hofmus., 22, p. 197; notes, Raspail, Feuille jeunes natural., 38, p. 106; Morgue, t.e., p. 87; Kampf zwischen Kreuzotter und Igel, Schreitmüller, Bl. Aquarienkunde, Stuttgart, 20, p. 772; Immunität gegen Toxine, Strubell, Münchener med. Wochenschr., 56, p. 2524; algirus vagans in France (probably introduced from Balearies), Siéri, Feuille jeun. nat., 40 p. 24.

Gymnura gymnura minor, subsp. n., Siam, True, Proc. U. S. Nat. Mus., 36, p. 453.

Gymnurinae, characters, TRUE, t.c., p. 449.

Neotetracus, g. n., p. 389, for N. sinensis, sp. n., Sze-chuen, p. 390, TROUESSART, Ann. Mag. Nat. Hist., ser. 8, 4.

CHRYSOCIILORIDAE.

Dentition, Broom, Ann. Natal. Gov. Mus., 2, p. 129; structure of eyc, Sweet, Q. J. Micr. Sci., 53, p. 527.

EXTINOT FAMILIES.

† Entomolestes g. n., p. 541, for E. grangeri, sp. n., p. 542, Bridger Eocene, MATTHEW, Mem. Amer. Mus. Nat. Hist., 9.

†Hyopsodus despiciens, p. 520, lepidus, p. 521, spp. n., Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9.

†Phenacops, g. n., for P. incerta, sp. n., Bridger Eocene, MATTHEW, Mem. Amer. Mus. Nat. Hist., 9, p. 395.

†Tragolemur, g. n., for T. myodes, sp. n., Bridger Eoeene, Matthew, Mem. Amer. Mus. Nat. Hist., 9. p. 547. †*Uintasorex*, g. n., p. 545, for *U. parvidens*, sp. n., p. 546, Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9.

†"Proglines."

Affinities, MATTHEW, Mem. Amer. Mus. Nat. Hist., 9, p. 546.

CARNIVORA.

A.—Carnassidentia.

Postcaval veins, Beddard, Proc. Zool. Soc., 1909, p. 477; foot-pads, Boas, Dansk. Vidensk. Selsk. Forh., 1909, p. 181, Fuss, Boas, Zool. Auz., 34, p. 524.

FELIDAE.

Im Russischen Reiche lebenden Gattungen, SATUNIN, Mitt. Kauk. Mus., 4, p. 218.

Felis domestica, general account, Schuster, No. 679; Sinnesapparat am Unterarm, FRITZ, Zs. wiss. Zool., 92, p. 291; männlichen Geschleehtsorgane, Wagner, No. 800; Entwickung der Venac anonymac und Thymus, Anikiev, St. Peterburg, Izv. voen.-med. Akad., 19, p. 3; solehi e giri eerebrali, SERGI, Napoli, Ann. Mus. Zool., ser. 2, 3, No. 8, p. 1; Altai breed derived from microtis, Noack, Zool. Anz., 34, p. 685; leo gujratensis, habits, Fenton. Bombay, J. Nat. Hist. Soc., 19, p. 4; tigers and their prey, BAGSHAWE, Bombay, J. Nat. Hist. Soc., 19, p. 253; tigris sondaica, notes on, WELCH, Proc. Zool. Soc., 1909, p. 892; (†) atrox bebbi, subsp. n., Pleistocene, California, MERRIAM, Unv. Calif. Publ., Bull. Dep. Geol., 5, p. 291; pardus, skull-variation, Pocock, Proc. Zool. Soc., 1909, p. 204.

Oncoïdes euptilura microtis Beschreibung, Satunin, Ochotn. věstn., Moskva, 9, 1909, p. 148.

Tigris virgata. Matsch. = T. septentrionalis, Sat., Satunin, Mitt. Kauk. Mus., 4, 1910, p. 232.

Trichaelurus, Sat. = Otocolobus, Satu-NIN, Mitt. Kauk. Mus., 4, p. 232.

VIVERRIDAE.

Fossa majori, sp. n., Madagascar, Dollman, Ann. Mag. Nat. Hist., London, ser. 8, 4, p. 306.

Galidia elegans, anatomy, BEDDARD, Proc. Zool. Soc., 1909, p. 477.

Herpestes ichneumon ferrugineo, i. dorsalis, i. grisea, subspp. n., Portugal, Seabra, Bull. Soc. Port. Sci. Nat., 2, p. 286.

Mungos rubrifrons, Hainan, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 240; sanguineus ugandae, s. galbus, Uganda, Wroughton, Ann. Mag. Nat. Hist., ser. 8, 3, p. 514; sp. et subspp. n.

Paguma larvata hainana, subsp. n. Hainan, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 377 [see Paradoxarus larvatus].

Paradoxurus minax, Mindanao, torvus, Bangao I., p. 375, sabanus, N. Borneo, p. 376, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, spp. n.; (Paguma) larvata hainanus, Hainan, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 240, subsp. n. [see Paguma larvata].

HYAENIDAE.

Hyaena sp., Beschreibung, ZARNDNY, Semja ochotn., Moskva, 1909, p. 115; Verbreitung im Kaukasus, SATUNIN, N. Balt. Weidm.-blt., Riga, 4, 1908, p. 385.

CANIDAE.

British Pleistocene, REYNOLDS, No. 611: Schädel, Heilborn, No. 306; domestication du Loup. Mösch, No. 509; Gibt es einen Hund?, Keller, No. 368; Verzeichnis der., Schakal"-arten, Lorenz, Wien, Verh. Zool.-Bot. Ges., 59, p. 82.

† Elurodon haydeni validus, p. 371, saevus secundus, p. 372, subspp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26.

†Amphicyon amnicola, sp. n., Plioeene Nebraska, Matthew & Cook. Bull. Amer. Mus. Nat. Hist., 26, p. 368.

Canis familiaris, Ibiza Balearic breed, Keller, Aus der Natur, 4, p. 524; Der Hund: Seine Abstammung und Geschichte, MORGAN, No. 511; Beobachtungen an verwilderten Hunden, Otto, Zool. Beob., 50, p. 176; Tagtier oder Nachttier? Zell, Wild u. Hund, 15, p. 241; Kreuzung,

Polarhund u. Dingo, EIFFE, Zool. Beob., 50, p. 312; Nervenzweige der Zehen, ZIMMERMANN, Közlem. az össreh. élet.-és kórt. kör., Budapest, 8, p. 65; Chiens sauveteurs et la zoopédie, Hachet-Souplet, Bul. inst. psych. internat., Paris, 7, p. 451; Leber, Milz, Magen und Pankreas, MINTZLAFF, No. 503; Geschlechtsleben, Albrecht, Wochenschr. Tierheilk, 52, p. 561; Lernen, BAUDOUIN, No. 59; Altai breed, Noack, Zool. Anz., 34, p. 685; follicule de de Graaf mûr et formation du corps jaune, Bouin, Paris, C. R. soc. biol., 65, p. 314; rut et corps jaune, Ancel et Bouin, Paris, C. R. soc. biol., 65, p. 365; Sehnenscheiden und Schleimbeutel der Gliedmassen WALTER, No. 803; Gchörorgan, HONDA, No. 332a; museoli nell' esofago, TRIN-CHIERI, Biologica, Torino, 2, No. 12, p. 1; Schädel aus einer prähistorischen Wohnstätte der Hallstattzeit, STUDER, Bern. Mitt. Natf. Ges., 1907, p. 155; mummified Egyptian breeds, Lorter et Gaillard, Lyon, Arch. Mus. Hist. Nat., 10, p. 259; lupaster, sacer & doederlini, skulls figured, Lorter et Caullard, p. 1909, cit. 1909, 250 et 2001. GAILLARD, op. cit., pp. 259 et seq.; lupus, black variety, Pogorželiskij, Moskva, Věstn. zool. sada, 2, p. 112; latrans, economic relations, Lantz, U. S. Dept. Agric., Biol. Surv., Bull., No. 20; (f) kronstadtensis, sp. n., Pleistocene, Kronstadt, Siebenbürge, Toula, Wien, Jahrb. Geol. Reichs., 59, p. 604; lagopus, im Gouv. Tver, Rĭabušinskij, Ochotn. gaz. Moskva, 37, p. 396; in Karelen, Jääskeläinen, Luonnon Ystävä, 13, p. 18; Suomalainen, t.c. p. 49; Brander, F. Jakttiden, Helsingfors, 4, p. 36.

†Daphænodon, g. n., for Amphicyon superbus, Pet, Miocene, Nebraska, Peterson, Science, ser. 2, 29, p. 620.

Otocyon virgatus, sp. n., Naivasha, Brit. E. Africa, MILLER, Smithson. Miscell. Coll., 52, p. 485.

†Tephrocyon hippophagus, sp. n., Pliocene, Nebraska, Маттнеw & Соок, Bull. Amer. Mus. Nat. Hist., 26, p. 373.

Vulpes, biography, Seton, No. 700; vulpes, Haarkleid und Violdrüse, Toldt, Ann. Nat. Hist. Hofmus., 22, p. 197; macrotis devius, subsp. n., Low. California, Nelson & Godman, Washington, P. Biol. Soc., 22, p. 25.

URSIDAE.

Ursus arctos, Altersveränderungen am Schädel, Lialin, Ochotn. gazeta, 37, p. 42; Varisieren von Dimensionen und Färbung, Grevé, K., N. Balt. Weidm. blt., Riga, 4, p. 433; Embryo mit Stachelanlagen, Toldt, Zool. Anz., 34. p. 606; Elze, Anat. Anz., 34, p. 568; russische und schwedische, Grevé, Zool. Beob., 50, p. 328; horribilis, habits, Wright, No. 875; americanus, embryo, Toldt, Ann. Nat. Hist. Hofmus., 22, p. 197; torquatus, nature of fat, Hooper, J. & P. As. Soc. Beng., 4, p. 33; torquatus macneilli, subsp. n., Tibet, Lydekker, Proc. Zool. Soc., 1909, p. 609; emmonsi (? = americanus, subsp.), dark grey phase, Osgood, Field Mus. Publ., Zool. 10, p. 1; kermodei, notes, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 350; (†) spelæus at Kaisertal, bei Kufstein, Schlosser, München, Abh. Ak. Wiss, 24, p. 385.

MUSTELIDAE.

Os penis, Ронц, Jenaische, Zs. 45, p. 379.

Foetorius putorius, in Finland, Pöy-Hönen, Luonnon Ystävä, 13, p. 109; Ayräpää, t.c. p. 114.

Gulo luscus, engraved on reindeer antler, LALANNE, Bordeaux, Actes Soc. Linn., 62, p. 381.

Lutra vulgaris, weight and length, Robinson, Field, 1909, 113, p. 1126, & Ann. Scot. Nat. Hist., 71, p. 134; popular account, Tregarthen, No. 765; speckled Irish specimen, Scharff, Irish Nat., 18, p. 141; canadensis in eastern Massachusetts, Brewster, Science, 29, p. 551.

Lutreola vison nesolestes, subsp. n. Admiralty I., Alaska, Heller, Univ. Calif. Publ. Zool., 5, p. 259.

Meles taxus, Trächtigkeitsdauer, T. A., Ochotn. věstn., 9, p. 234.

Mellivora signata, sp. n., Sierra Leone, Рососк, Proc. Zool. Soc., 1909, p. 394; ratel, colour-change, Welch, t.c., p. 889.

Mustela zibellina, in Gefangenschaft, Valtichov, Naturfreund, 4, p. 108; vison dans la Manche, Laville, Feuille jeunes natural., 39, p. 250; dans l'Orne, Letaco, Rouen, Bul. Soc. Amis. Sci. Nat., 44, p. 242.

Putorius (Untergattung Arctogale) in Italien, Cavazza, Zool. Anz., 34, p. 582; ermineus in Italia, Cavazza, Bol. Soc. zool. ital., ser. 2. 10, p. 256; rixosus allegheniensis in Wisconsin, Ward, Milwaukee, Bull. Wis. Nat. Hist. Soc., 7, p. 11.

PROCYONIDAE.

Bassaricyon medius, sp. n., Colombia, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 233.

Bassariscus astutus palmarius, I.ow, California, a. insulicola, San José I. subspp. n., Nelson & Goldman, Washington, P. Biol. Soc., 22, p. 26; (†) antiquus, sp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26, p 377.

Cercoleptes caudivolvulus, Osteologic und Myologie, JULITZ, Arch. Natg., . 75, Bd. 1, p. 143.

Nasua vittata, seasonal colour change, head figured, Rothschild, Nov. Zool., 16, p. 3.

Procyon lotor, hibernation, WILLIAMS, Ohio, Nat., 9, p. 95.

B.—Pinnipedia.

Anatomy & osteology, Antarctic, Heffurn, Edinburgh, Tr. R. Soc., 47, p. 57, Thomson, t.c. p. 187.

Halichoerus grypus, young, PRIEMEL, Zool. Bcob., 50, p. 213.

Macrorhinus oder Mirounga ?, Росне, Zool. Anz., 34, р. 319.

Macrorhinus leoninus macquariensis, Macquarie Is., p. 603, l. crosetensis, Crozet Ids., p. 606, subspp. n., LYDEK-KER, Proc. Zool. Soc., 1909; angustirostris a synonym of leoninus, LYDEK-KER, Field, 114, p. 1172.

Odobænus rosmarus, young live specimen, MITCHELL, Proc. Zool. Soc., 1909, p. 730; viscera of do., Burne, t.c., p. 732; food, Orléans, Duc d, No. 533.

Phoca hispida in fresh-water clay, Sweden, LÖNNBERG, Ark. Zool., 6, No. 3.

†Pontolis magnus, note, TRUE, in Dall's Miocene of Oregon, Washington,

U. S. Geol. Surv., Prof. Papr., 59, 1909, p. 143.

C .- † Creodontia:

Bridger Eocene, MATTHEW, Mem. Amer. Mus., 9, p. 291.

Hapalodectes, g. n., for Dissacus leptognathus, Osborn, Wasatch Eccene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p.*498.

Harpagolestes immanis, sp. n., Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 497.

Hywnodon brachycephalus, sp. n., Oligocene, Eygpt, Osborn, Bull. Amer. Mus. Nat. Hist., 26, p. 424.

Metasinopa, g. n., for M. fraasii, sp. n., Oligocene, Egypt, Osborn, Bull. Amer. Mus. Nat. Hist., 26, p. 423.

Limnocyon potens, sp. n., Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 447.

Machæroides, g. n., p. 461, for M. eothen, sp. n., p. 462, Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9.

Miacis medius, sp. n., Bridger Edeene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 370.

Oödectes proximus, sp. n., Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 378.

Palearctonyx, g. n., p. 399, for P. meadi, sp. n., p. 102, Bridger Eocene, Matthew, Mcm. Amer. Mus. Nat. Hist. 9.

Pterodon leptognathus, p. 419, phiomensis, p. 421, spp. n., Oligocene, Egypt, Osborn, Bull. Amer. Mus. Nat. Hist., 26.

Thinocyon cledensis, p. 460, mustelinus, p. 461, spp. n., Bridger Eocene, MATTHEW, Mem. Amer. Mus. Nat. Hist., 9.

Uintacyon jugulans, p. 373, major, p. 376, Bridger Eocene, MATTHEW, Mem. Amer. Mus. Nat. Hist., 9.

Viverrarus sicarius, sp. n., Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9, p. 360. Vulpavus projectus, p. 382, ovatus, p. 391, completus, p. 398, spp. n., Bridger Eocene, Matthew, Mem. Amer. Mus. Nat. Hist., 9.

RODENTIA.

Of Ruwenzori, Festa, No. 228; glandules parathyroïdes, Ivanow, No. 339; l'action des rayons X sur l'évolution de la mamelle pendant la grossesse, CLUZET et BASSAL, J. anat. physiol., Paris, 44, p. 453; inheritance of yellow, HAGEDOORN, Univ. Cal. Pub. Physiol., 3, p. 95; Entwickelung der Wolffschen und Müllerschen Gänge, KWIETNIEWski, Anat. Anz., 35, p. 240; perversion de l'instinct maternel, Tur, Bul. sci. France-Belgique, Paris, 43, p. 477; origine et transformations des cellules qui, après part, contribuent à la rénovation de la muqueuse utérine, RETTERER et LELIÈVRE, Paris. C. R. soc. biol., 67, p. 631; relations fonctionnelles des corps jaunes avec l'utérus non gravide, DÜBREUIL et REGAUD, C. R. soc. biol., 66, p. 413; Thränen-drüse, Kuliotokij, N. K., Moskva, Dnevnik XII. Sjězda russ. jest. vrač., 1909-1910 g., p. 179; Gehörapparat der Nagetiere Ungarns, Váll, M. Orv. Arch., Budapest, 10, p. 135; Genitalorgane und Afters, Andersson, Ark. Zool., 5, No. 4.

SCIURIDAE.

African genera, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 467; Entwickelung der Geschlechtsorgane, Andersson, Ark. Zool., 5, No. 4.

Ammospermophilus leucurus insularis, subsp. n. Low. California, Nelson & Goldman, Washington, P. Biol. Soc., 22, p. 24.

Arctomys, Murmeltiere aus dem Rheingebiet und ihre Beziehungen zu den lebenden Murmeltieren Europas, Hagmann, Strassburg, Mitt. geol. Landesanst., 6, p. 369; marmotta, Fortpflanzung, Kooh, Jagd u. Wild, 1, p. 113; littledalei, Pamirs, l. flavinus, E. of Samarkand, p. 259, centralis, N. of Kashgar, p. 260, spp. et subsp. n., Thomas, Ann. Mag. Nat. Hist., ser. 8, 3; see also Marmotta.

Cynomys (olim Arctomys) fulvus, Beschreibung, Verbreitung, SATUNIN, Mitt. Kauk. Mus., 4, p. 175; concolor hypoleucas Nordpersien, subsp. n., SATUNIN, St. Peterburg, Ann. mus. zool., 14, p. 1.

Epixerus, g. n., for Sciurus wilsoni, du Chaillu, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 472.

Eutamias quadrivittatus animosus, Warren, Washington, Proc. Biol. Soc., 22, p. 105; albogularis, Shen-si, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 429; merriami meridionalis, Lower California, Nelson and Goldman, Washington, P. Biol. Soc., 22, p. 23, sp. et subspp. n.

Euxerus, g. n., for Sciurus erythropus, Geoffr., Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 473.

Funisciurus carruthersi tanganyikæ, Tanganyika, mandingo nigrensis, Low. Nigeria, p. 478, leucostigma talboti, S. Nigeria, p. 477, spp. n., Thomas, Ann. Mag. Nat. Hist., ser. 8, 4.

Heliosciurus undulatus dolosus, Mafia I., G. E. A., p. 100, u. daucinus, Uganda, p. 101, multicolor lateris, Lado, p. 102, m. clegans, Mt. Elgon, p. 103, m. omensis, Omo Valley, m. cænosus, Ubanghi Valley, p. 105, gambianus senescens, Senegal, p. 544, subspp. n., THOMAS, Ann. Mag. Nat. Hist., ser. 8, 4.

Lariscus, nom. n., for Laria, Gray, nec Scopoli, Thomas and Wroughton, Proc. Zool. Soc., 1909, p. 389.

Marmotta vigilis, sp. n., S. E. Alaska, HILLER, Univ. (alif. Publ. Zool., 5, p. 248; see also Arctomys.

Myosciurus, g. n., for Sciurus minutus, du Chaillu, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 474.

Myrsilus, g. n., for Macroaus aubinnii, Gray, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 470.

Paraxerus cepapi soccatus, Angoniland, p. 515, c. quotus, Katanga dist., p. 516, WROUGHTON, Ann. Mag. Nat. Hist., ser. 8, 3; jackson i capitis, Nairobi, p. 105, ochraceus salutans, G. E. A., o. electus, B. E. A., p. 106, Thomas, op. cit. 4, subsp. n.

Pteromys alborufus, note, CARRUCGIO, Boll. Soc. 200l. ital., ser. 2, 10, p. 267.

Ratufa bulana, sp. n., Pulo Bulau, Rhiolinga Arch., Lyon, U. S. Nat. Mus. Proc., 36, p. 482.

Rhinosciurus peracer, Perak, leo, Singapore, l. rhionis, Rhio Arch., spp. et subsp. n., Thomas & Wrouchton, Ann. Mag. Nat. Hist., ser. 8, 3.

Sciurotamias owstoni, sp. n., Shen-si, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 429.

Sciurus vulgaris, Stimme, Schuster, Zool. Beob., 50, p. 107; importance forestière, Decoppet, Chron. Agric., Lausanne, 18, p. 359; Weisse Exemplare, Wahnnund, F. Jakttdn, 3, p. 404; Massenwanderung im Perm, Kalūs, Naša ochota, St. Peterburg, 3, p. 114; vittatus nesiotes, Rhio Arch., p. 439, v. subluteus, Johor, seimundi, Rhio Arch., p. 440, Thomas and Wroughton, Ann. Mag. Nat. Hist., ser. 8, 3; concolor terulavensis, Terutan I., Malacca, Thomas & Wroughton, op. cit. 4, p. 435; (Microsciurus) palmeri, Colombia, p. 234; ruwenzorii vulcanius, Vulcan Forest, N. of Lake Kivu, p. 476, Thomas, t.c.; director, sp. n., Direction I., China Sea, Lyon, U. S. Nation. Mus. Proc., 36, p. 509; spp. et subspp. n.

Spermophilus musicus, Bau der Höhlen, Bekämpfung, Emeljanov, Južnruss. selisk.-choz. gazeta, 11, p. 7.

CASTORIDAE AND GLIRIDAE.

Castor fiber, cranial and dental variation, Lönnberg, Ark. Zool., 5, No. 6; in Mähren, Snoffer, Zs. d. Ver. Gesch. Mährens-Schlesiens, 13, p. 219; canadensis phæus, subsp. n., S. E. Alaska, Heller, Univ. Calif. Publ., Zool. 5, p. 250.

†Dipoides curtus, sp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26, p. 381.

Das Vorkommen der Schläfer Myoxidae in der Gegend von Warstein, WIEMEYER, Münster, Jahresber. Prov-Ver. Wiss., 37, p. 54.

Eliomys quercinus, division de l'ovule dans les follicules de de Graaf, Athias Anat. Anz., Jena, 34, p. 1; in Karelen, Penttinen, Luonnon Ystävä, 13, p. 152; nitella, immunité contre le venin de la Vipère, BILLARD, Paris, C. R. soc. biol., 67, p. 90.

(N-11091 f)

Muscardinus avellanarius, Entwicklungsgeschichte der Eihäute, SCHMID, No. 668.

Myoxus glis, im Königreich Sachsen, ZIMMERMANN, Zool. Beob., **50**, p. 108.

Myoxidi ticinesi, Ghidini, Locarno, Boll. Soc. ticinese Sc. Nat., 2, 1905, p. 50.

JACULIDAE.

Dipus for Asiatic and Jaculus for African Jerboas, Satunin, Mitt. Kauk. Mus., 4, pp. 72, 75.

MURIDAE.

Rats of India and their races, LLOYD, Rec. Indian Mus., 3, p. 1; Mäusearten, der baltischen Provinzen, TEIDOFF, N. Balt. Weidm.-blt., Riga, 4, p. 404; rats and cocoa-plantations, FABER, Arb. biol. Anst., 7, p. 337; Entwickelung der Geschlechtsorgane, Andersson, Ark. Zool., 5, No. 4.

Arvicanthis nairobae, Brit. E. Africa, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 168; abyssinicus præceps, a. rubescens, p. 538, a. nubilans, p. 539, E. Africa, WROUGHTON, Ann. Mag. Nat. Hist., ser. 8, 4; sp. et subspp. n.

Arvicola ratticeps in Deutschland, Rörig, Arb. biol. Anst., 7, p. 429; agrestis, Wintervorrate, Eckstein, Natw. Zs., Landw., Stuttgart, 7, p. 586.

Beamys, g. n., p. 107, for B. hindei, sp. n., p. 108, B. E. A., Thomas, Ann Mag. Nat. Hist., ser. 8, 4.

Crasseomys niigatoe, sp. n., Japan, Anderson, Ann. Mag. Nat. Hist., ser. 8, 4, p. 317.

Cricetulus griseus fumatus, subsp. n.. Manchuria, THOMAS, Ann. Mag. Nat. Hist., ser. 8, 4, p. 502.

Cricetus frumentarius, Vorderdarm, ROSCHER, No. 627; vulgaris (†) runtonensis, subsp. n., Forest-bed, Runton, Norfolk, Newton, Geol. Mag. decade 5, 6, p. 113.

Chiropodomys anna, sp. n., Java, Thomas & Wroughton, Abstr. P. Z. S., 1909, p. 19, Proc. Zool. Soc., 1909, p. 390.

Dendromus whytei, Nyasa, 3, p. 247, nyikae, Nyika, p. 248, acrous, Mt. Elgon, 4, p. 541, spp. n., Wroughton, nn. Mag. Nat. Hist., ser. 8.

Dipodillus mariae, sp. n., Mokattam Range, Bonhote, Proc. Zool. Soc., 1909, p. 792 (1910).

Ellobius fusciceps, sp. n., Turkestan, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 265.

Hydromys chrysogaster caurinus, subsp. n., N. W. Australia, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 197.

Laomys, g. n., for L. woodwardi, sp. n., N. Australia, Thomas, Ann. Mag. Nat. Nist., ser. 8, 3, p. 373.

Leggada triton, sorella, subsp. n., Elgon distr., Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 548.

Lemmus lemmus, selbständige Art gegenüber L. obensis, Ekman, Naturw. Unters. d. Sarekgebirges, 4, 2, p. 125; lemmus & Dicrostonyx torquatus fossil in Lancashire, Jackson Lancashire Nat., ser. 2, 2, p. 227.

Lenoxus, g. n., for Oxymycterus apicalis, Allen, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 236.

Lophuromys zena, p. 550, rubecula, p. 551, spp. n., B. E. Africa, DOLLMAN, Ann. Mag. Nat. Hist., ser. 8, 4.

Meriones buechneri, sp. n., Zungaria, Тномаs, Ann. Mag. Nat. Hist., ser. 8, 3, p. 262.

Mesembriomys, n. nom., for Ammomys, Thomas, 1906, nec Rafinesque, argurus indutus, subsp. n., N. Australia, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 151.

Microtus montanus, swarms in Nevada, Piper, U. S. Dep. Agric., Farm. Bull, No. 352; admiraltiae, Admiralty I., Alaska, Heller, Univ. Calif. Publ. Zool. 5, p. 256; (Pitymys) carruthersi, p. 263 (Alticola) argurus, Turkestan, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3; gud Grusinische Heerstrasse, Satunin, Mitt. Kauk. Mus., 4, pp. 273, 288; operarius eulœcus, Yukon, Osgood, N. Amer. Fauna, No. 30, p. 23; spp. et subspp. n.

Microxus, g. n., for Oxymycterus mimus, Thos., Thomas, Ann. Mag. Nat. Hist., ser. 8, 4. p. 237.

Mus norvegicus, in U. S. A., Lantz, U. S. Biol. Surv. Bull., No. 33; rattus, variations' in fertility, Lloyd, Rec. Ind. Mus., 3, p. 261; variations de l'hémoglobine, Jolly, Paris, C. R.

soc. biol., 66, 1909, (136-139); colourheredity, etc., Morgan, Amer. Nat., 43, p. 182; Rat fauve ou Alexandrin, ORMEZZANO, Autun, Bul. soc. hist. nat., 19, Proc.-verb., p. 119; Bildung der Körperform, Widakowich, Zs. wiss. Zool., Leipzig, 94, p. 240; rattus und decumanus, Verdrängung der Hausratte durch die Wanderratte, BAUM-GART, No. 63: rattus rhionis, subsp. n. Rhio Arch., Thomas & Wroughton, Ann. Mag. Nat. Hist., ser. 8, 3, p. 441; musculus, Entwickelung der Keimblätter, Allantois, Eihäute, etc., Soвотта, Anat. Anz., 34, ErgH., р. 129; Anistotische Teilung im jungen Knochengewebe, Novikov, Moskva, Dnevnik XII. Sjëzda russ. jist. vrač., 1909–1910, p. 157; Hörorgan der japanischen Tanzmaus, Quix, Amsterdam, Werk. Gen. Nat. Genees. Heelk, ser. 2, 6, 2, 1909, p. 83; peromyscus, B. E. Africa, Heller, Smithson. Miscell. Coll., 52, p. 572; albiventer, p. 246, illovoensis, p. 248, Natal, JENTINK, Zool. Jahrb. systemat., 28; chombolis, Pulo Jambot, Rhiolinga Arch., Lyon, U. S. Nat. Mus. Proc 36, p. 484; bowersi okinavensis, Oshima Is., NAMIYE, Hoburs. Z., Tokyo, 21, p. 452; kijabius, Kijabe, B. E. Africa, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 169; chrysophilus tzancenensis, Natal, p. 460, nama-quensis monticularis, Transvaal, p. 461, JAMESON, Ann. Mag. Nat. Hist., ser. 8, 4; wagneri manchu, Manchuria, Thomas, t.c. p. 502; medicatus, Photoas, t.c. p. 502; mearcains, p. 541, norae, p. 542, Brit. E. Africa, WROUGHTON, t.c.; vociferans tersus, Terutau I., Malacca, Thomas and WROUGHTON, t.c. p. 535; spp. et subspp. n.

Myotalpa rufescens, sp. n., Shen-si, ALLEN, Bull. Amer. Mus. Nat. Hist., 26, p. 428.

Neotoma intermedia pretiosa, i. perpallida, p. 139, i. vicina, abbreviata, p. 140, ferruginea chamula, p. 141, sp. et subspp. n., Mexico, Goldman, Washington Proc. Biol. Soc. 22; pennsylvanica note Miller and Chapin Washington Proc. Biol. Soc., 22, p. 88.

Œcomys tapajinus, Up. Tapajos R., Amazonia, 3, p. 378; catherinae, S. Brazil, p. 234, Тнома́s, Ann. Mag. Nat. Hist., ser. 8, spp. n. Ototylomys guatemalae, sp. n., Guatemala, Thomas, Proc. Zool. Soc., 1909, p. 670.

Oxymycterus angularis, p. 237, judex, p. 238, spp. n., Brazil, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4.

Peromyscus, revision of species, maniculatus eremus, Magdalen Is., Quebec, p. 47, m. algidus, Yukon, p. 56, m. holisteri, San Juan I., Washington, p. 62, m. margaritæ, Margarita I., Low. Calif., p. 95, m. magdalenae, Magdalena I., L. Calif., p. 101, polionotus albifrons, Florida, p. 108, leucopus aridulus, Montana, p. 122, l. ochraceus, Arizona, p. 124, truei lagunae, Low. Calif., p. 172, megalops melanurus, Mexico, p. 215, eremicus insulicola Espirutu Santa I., L. Calif., p. 246, e. avius, L. Calif., p. 247, polypolius, I. Calif., p. 248, taylori analogus, Michoacan, p. 256, subspp. n., Osgood, N. Amer. Fauna, No. 28, Review of this work, Allen, Amer. Nat., 43, p. 633.

Reithrodontomys halicoetes, sp. n., California, Dixon, Univ. Calif. Publ., Zool., 5, p. 271.

Sicista subtilis, in Norway, Collett, Christiania Vid. Selks. Forh., 1909, No. 11, and Zool. Anz., 34, p. 379; Grieg, Bergen Naturen, 33, p. 254.

Tatera smithi, Unyoro, 3, p. 249, dundasi, Mt. Elgon, 4, p. 540, WROUGHTON, Ann. Mag. Nat. Hist., ser. 8, spp. n.

Thannomys loringi, sp. n., B. E. Africa, Heller, Smithson. Miscell. Coll., 52, p. 471.

Uranomys, g. n., p. 551, for U. ruddi, sp. n., Mt. Elgon, p. 552, DOLL-MAN, Ann. Mag. Nat. Hist., ser. 8, 4.

Zyzomys, g. n., for Mus argurus, Thos., Australia, Thomas, Ann. Mag. Nat. Hist., 26, p. 372.

SPALACIDAE.

Verwandtschaft mit Muridae, Kulĭčickij, N. K., Moskva, Dnernik XII. Sjězda russ. jest. vrač., 1909– 1910, p. 179.

Tachyoryctes ankoliae, Ankole, dæmon, Kilimanjaro, p. 545, ruddi, r. badius, B. E. A., p. 546, storeyi B. E. A. naivashae, Naivasha, spalacinus, Kenya distr., p. 547, spp. et subsp. n., Thomas, Ann. Mag. Nat. Hist., ser. 8, 4.

BATHYERGIDAE. GEOMYIDAE.

Georychus cinereo-argentatus in Gefangenschaft Zool. Beob., 50, p. 33; micklemi, Kataba R., Zambesia, Chubb, Ann. Mag. Nat. Hist., ser. 8, 3, p. 35; jorrisseni, Transvaal, Jameson, ibid. 4, p. 466; kapiti, B. E. Africa, Heller. Smithson. Miscell. Coll., 52, p. 470, spp. n.

Heterocephalus dunni, sp. n., Somaliland, p. 110, dentition of this and allied genera, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4.

Thomomys magdalenae, sp. n., Magdalena I., p. 24, bottae ruseolus, subsp. n., Low, California, p. 25, Nelson and Goldman, Washington, P. Biol. Soc., 22.

OCTODONTIDAE.

Echimys laticeps, sp. n., Minas-Geraes, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 240.

Loncheres medius, sp. n., S. Brazil, THOMAS, Ann. Mag. Nat. Hist., ser. 8, 4, p. 239.

Myopotamus coypus, Musculus ischiocaudalis, Zuckerkandl, Wien, Sitzber. Ak. Wiss., Abt. iii, 117, p. 125.

CAVIIDAE.

Cavia cobaya, Deckepithel des Oesophagus, Arcangeli Monatshefte Derm., 47, p. 297; Entwickelung der Geschlechtsorgane, Andersson, Ark. Zool., 5, No. 4; Mastzellen, Zimmermann, Közlem. az össrch. élet-és kórt. kör., Budapest, 8, p. 1.

Dasyprocta aguti, Musculus ischiocaudalis, Zuckerkandl, Wien, Sitzber. Ak. Wiss., Abt. iii, 117, p. 125.

LEPORIDAE AND OCHOTONIDAE.

Hares of N. America, Nelson, North American Fauna, No. 29; skullstructure, Bemmelen, Onderzoek. Zool. Lab. Rijksuniversit. Groningen, 1, p. 1; über die Lauten des Hasen, Brander, F. Jakttiden, Helsingfors, 3, p. 182; Leporiden, E. B. C., Schweiz, Bl. Ornithol., 32, p. 356.

Lepus variabilis, in place of timidus, p. 225, v. (†) anglicus, subsp. n., Pleistocene, Kent, p. 261, Hinton, Dublin, Sci. Proc. R. Soc., ser. 2, 12; timidus, schwarze Varietät a. d. Gouv. Ufa, Koževnikov, Ochotn. věstn., 9, p. 134; swinhoei brevinasus, subsp. n., Tai-pashiang, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 427; europæus in Finland, VÄLIKANGAS, Luonnon Ystävä, 13, p. 114; SUOMALAINEN, t.c. p. 49; cuniculus, general account, KLINK-HARDT, No. 376; Anatomie, GERHARDT, No. 252; Zwölf schwarze Wildkanin-Natw., p. 51; oeufs à deux germes, Regaud et Dubreuil, Paris, C. R. acad. sci., 148, p. 1279; rationelle Zucht, Osipov, Derevnia, St. Peterburg, 13, pp. 113, 211, 415, 520; influence du sexe mâle dans l'hérédité du pelage, Loisel, Paris, C. R. ass. franç. avanc. sci., 36, 2º partie, 1908, p. 683; action du mâle sur le rut et Paris, C. R. soc. biol., 65, pp. 501, 661-673; Histologie und Funktion der Kinnhautdrüsen, MISLAVSKIJ, Kazanı, Zap. Univ., 76, p. 1.

Ochotona hyperborea mantchurica, subsp. n., Manchuria, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 504.

Pronolagus (Ronolagus, errorim)† intermedius, sp. n., Prehistoric, Transvaal, Lyster, Ann. Transvaal Mus., 1, p. 195.

UNGULATA.

Anatomy of various, Beddard, Proc. Zool. Soc., 1909, p. 160; Haus-tiere in Afrika, Schafe, Ziegen, Esel, Кüвснногг, Tropenpflanzer, Berlin, 13, p. 222; Bau der Gallengänge und Histologie der Haussäugetiere, Schache No. 658; Anatomie der Ovarien von Wiederkäuern und Schweinen, Käp-PELI, Landwirtsch. Jahrbuch Schweiz. 22, p. 53; Lippen und Backendrüsen der Haussäugetiere, HARTIG, No. 299; Dünndarmes Histologie des 3; der Haussäugetiere, TRAUTMANN, No. 763; Histologie des Enddarmes du Haussäugetiere, Schumann, No. 677: Pankreas der Haussäugetiere, Höcke, No. 327.

A .- Artiodactyla.

Horn-measurements, KINNEAR, Bombay, J. Nat. Hist. Soc., 19, p. 184; Ruminant penis & viscera, Lönnberg, Ark. Zool., 5, No. 10; ganglions hémolymphatiques des Ruminants, Forgeot, Paris, C. R. ass. franc. avanc. sci., 37, p. 560.

BOVIDAE.

Bison, European species, p. 243, caucasicus a species, p. 252, †(primitivus, Pleistocene, Lena Valley, sp. n. p. 254, HILZHEIMER, Mitt. k. Natkab. Stuttgart, 1909; Synovialgruben, Bürki, Schweis. Arch. Thierheilk., 47, p. 263; bonasus, einstige und jetsige Verbreitung, Grevé. Balt. Weidm.-blt., 5, p. 361; Ursache des Niederganges, VRUBLEYSKIJ, Mess. med. vet. soz. St. Peterburg, 21, p. 286.

Bonasus europaeus Yermoloff, Smithsonian Inst., Rep., 1906, p. 345.

Bos taurus, origin, various British breeds, Wilson, Dublin, Sci. Proc. R. Soc., 12, pp. 1, 66, 145; parkbreeds, FORREST, Trans. Caradoc F. Cl. 4, p. la; skeleton, STAUDINGER, No. 722; African breeds (including indicus), Kürchhoff, Tropenplanzer, 11, p. 550, 12, p. 129; mammary glands, ZIMMERMANN, Közlem. az összeh. életés kort. kör., Budapest, 8, p. 131; Entwicklungsabnormität der Scheideöffnung, Ban, Allatrov. L., Budapest, 32, p. 352; Dicephalus und rhachischisis eines Kalbes, Skriabin, Mess. med. vet. soc., St. Peterburg, 21, p. 341; Anomalien des Kuhenters, Skriabin, Mess. med. vet. soc., St. Peterburg, 21, p. 757; Kalb mit drei Fussen, Kryžanovskij, Mess. med. vet. soc., St. Peterburg, 21, p. 463; dreigeteilte Harnblase, Čugunov, Mess. med. vet. soc., St. Peterburg, 21, 1909, p. 388; Misbildung beim Kalb. SISIKTOROV, Mess. med. vet. soc., St. Peterburg, 21, p. 660; Misbildung des Kopfes, ZALETAJEV, Mess. med. vet. soc., St. Peterburg, 21, p. 986; Akklimatisation von Gebirgsrassen in Niederungen, Anon., Kiev, Izv. Univ., 49, 10, p. 1; fat and its development, Bell, Amer. J. Anat., 9, p. 401; (†) primigenius, the Minotaur of Crete, Keller Zurich, Vierteljahrschr. Nat. Systematic. 6031

Ges., 54, p. 424; osteology, HILZHEIMER, Mitt. k. Natkab. Stuttgart,
1909, p. 259; (†) primigenius, priscus
etc., remains in Dantsic Museum,
BAUME, Danzig, Schrift. Nat. Ges.,
ser. 2, 12, p. 45; (†) priscus, skull,
Kelsey, Yorks, Sheffard, Hull Mus.
Publ., No. 60, Quart. Rec. Add., No.
28, p. 10; indicus and bubalus, Madras
breeds, Gunn, Madras, Bull. Dept.
Agric., 3, No. 60; sondaicus porteri,
subsp. n., Siam, Lydekker, Proc.
Zool. Soc., 1909, p. 669; bubalis,
Indian breeds, Lydekker, Country
Life, 26, p. 679.

Bubalis (†) priscus, sp. n., Prehistoric, Orange River Colony, Broom. Ann. S. African Mus., 7, p. 280.

Bubalus buffelus, Albinismus, Ungár, Állatorv. L., Budapest, 32, p. 638.

Budorcas taxicolor whitei, figure, WHITE, Proc. Zool. Soc., 1909, p. 668, taxicolor, note, MITCHELL, t.c. p. 741; notes, TROUESSART, Nature, Paris, 37, p. 115.

Capra aegagrus, Beschreibung, Verbreitung im Kaukasus, Satunin, Jestestv. i. geogr., 14, 7, p. 13; hircus, Hermaphroditismus, Koiransky, Veterin zirni, Moskva, 1909, p. 277, Seidalin, Mess. med. vet. soc., St. Peterburg, 21, p. 665; und der Wald, SAXLUND, Kristiania Tidssk. Skogbr., 17, p. 76; ibex, Verwandte Formen u. ihrc Verbreitung, Sfryer, Weidmannsheil, Klagenfurt, 29, p. 335; variety, Rhaetian Alps, Ghidini, Diana, 1909, p. 68; caucasica and races, LYDEKKER, Field, 113, p. 376; Le Verbreitung, Synonymie, Lebensweise, dinniki, Hörner, Rasevic, Semja ochotn., 1909, p. 39; cylindricornis, caucasica, sewer-zowi, dinicki, Verbreitung, Lebensweise, Synonymie, DINNIK, Mat. faun. flor. Ross., Moskva, 9, 1909, p. 1 N. Balt. Weidm.-blt., Riga, 4, p. 2; Synopsis und Verbreitung der Kaukasischen und siberischen Steinböcke, SATUNIN, Priroda i ochota, Moskva, 37, 8, Beilage; Stambecco dei Pirenei, Carruccio, Boll. Soc. zool. ital., ser. 2, 10, p. 184.

Connochætes taurinus albojubatus, black phase, B. E. Africa, Lydekker, Field, 114, p. 586.

Gazella dorcas, ghiandole suborbitali, BECCARI, Monit. zool. ital., 20, p. 1;

picticauda, young, BAILEY, Bombay J. Nat. Hist. Soc., 19, p. 521.

†Gidleya nom. n. pro Liops, Cossmann, Rev. crit. paléozool., 11, p. 64.

Haploceros montanus, breeding in New York, HORNADAY, Zool. Beob., 50, p. 20.

†Ilingoceros, g. n., for I. alexandrae, sp. n., Pliocene, Nevada, MERRIAM, Univ. Calif. Publ., Bull. Dep. Geol., 5, p. 320.

Madoqua phillipsi, anatomy, Beddard, Proc. Zool. Soc., 1909, p. 188; p. gubanensis, Guban, Somaliland, cordeauxi, Abyssinia, Drake-Brockman, Ann. Mag. Nat. Hist., ser. 8, 4, p. 49; langi, Elmenteita, B. E. Africa, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 153; spp. et subsp. n.

†Myotragus, g. n., for M. balearicus, sp. n., Cavern. Majorca, BATE, Geol. Mag., decade 5, 6, p. 385.

†Neotragocerus, g. n., for N. improvisus, sp. n., Pliocene, Nebraska, Matthew, & Cook, Bull. Amer. Mus. Nat. Hist., 26, p. 413.

Oryx beatrix, notes, CARRUTHERS, Field, 114, p. 422.

Ovibos moschatus, in Europa und Asien, Kowarzik, Wien, Arb. Zool. Inst. Univ., 18, p. 83, und Zool. Anz., 33, p. 857; Allgemeiner, Verbreitung, Schweder, Riga, Korr.-blt. Naturf. Ver., 52, p. 192; m. (†) mackenzianus in Diluvium of Saxony, Wanderer, Sitz. Ber. Isis, 1909, p. 79.

Ovis aries, 4-horned breeds, HOLDING, Proc. Zool. Soc., 1909, p. 81; Skelet und dessen Veränderungen und Wachstum, TSHIRVINSKY, Izv., politechn. Inst., 9, 1, p. 1; ghiandole sudorifere, Beccari, Intorno ital. Anat. Embriol., 8, p. 271; Körpermasse und deren Beziehungen zu Grösse von Lunge SEEBERGER, Jahrb. und Herz, wiss. Tierzucht, 4, 1909, p. lxxiv; hodgsoni, jubala, sairensis, karelini, littledalei & poli, races of ammon, LYDEKKER, Field, 113, p. 117; orientalis & races, Lydekker, t.c. p. 242; nigrimontana, from Bokhara, an Urial, CARRUTHERS, ibid. 114, p. 623, a race of ammon, LYDEKKER, t.c. p. 663; dalli intergrades with fannini and nelsoni, OSGOOD, N. Amer. Fauna, No. 30, p. 51; heinsii und den Bau der Hörner der Wildschafe, Shitkow und Sabanejew, Zool. Jahrb., Abt. f. Syst., 28, p. 457; laristanica, sp. n., Sudpersien, Nassonow, St. Peterburg, Bull. Ac. Sc., 3, 1909, p. 1179.

†Praeovibos priscus, note, Wüst, Zs. natw., Stuttgart, 86, p. 176; = Ovibos fossilis, Rüt., KOWARZIK, Zool. Anz., 33, p. 857.

Rhynchotragus guentheri wroughtoni, subsp. n., Gallaland, Drake-Brockman, Ann. Mag. Nat. Hist., ser. 8, 4, p. 51.

†Sphenophalos, g. n., for S. nevadanus, sp. n., Plioeene, Nevada, Merriam, Univ. Calif. Publ., Bull. Dep. Geol., 5, p. 325.

Tragclaphus tjaderi, sp. n., Nakuru, B. E. Africa, Allen, Bull. Amer. Mus. Nat. Hist., 26, p. 148.

†Tragoceras sp., Sarmatische Schieht von Sebastopol, Borissjak, Moskva, Dnevnik XII. Sjëzda russ. jest. vrač., 1909-1910g., p. 264.

ANTILOCAPRIDAE AND GIRAFFIDAE.

Antilocapra americana, anatomy, Beddard, Proc. Zool. Soc., 1909, p. 172; notes, Prince, Ottawa Nat., 23, p. 41.

Giraffa camelopardalis, new race, Tana Valley, LYDEKKER, Field, 113, p. 844.

Okapia johnstoni, anatomical notes, Rothschild et Neuville, Paris, C. R. acad. sci., 149, p. 693; head of the Egyptian deity Set not that of Okapia, but of Camelopardalis, Jensen, Köbenhavn, Maanedsmagasinet, 1909, p. 825.

CERVIDAE.

American, Shuffeldt, Natur. u. Haus, 17, p. 234; Fortbewegungsarten und Wanderungen, Rorig, D. Jäger, 31, p. 126.

Alces palmatus, Altersveränderungen des Geweihes, Bley, Fr., N. Balt. Weidm-blt., 5, 1909, p. 169; Schaden in Wäldern, Sivers, Fr. v., N. Balt. Weidm.-blt., 4, p. 18; Geweih und dessen Veränderungen, Auer, K. von, N. Balt. Weidm.-blt., Riga, 4, p. 77; large antlers from Prussian peat, Braun, Königsberg, Schr. Phys.-ökon. Ges., 51, p. 412; Kampf zwischen

mannlichen Elchen, Waden, ibid. 3, p. 61; Elchstatistik fur 1907, 8, Brander, F. Jaktiddn, Helsingsfors, 3, p. 102, 4, p. 134.

†Blustomeryx elegans, sp. n., Pliocene, Nebraska, Bull. Amer. Mus. Nat. Hist., 26, p. 410.

Capreolus caprea, antlers of this and extinct species, Hermann, Danzig, Schrift, Nat. Ges., ser. 2, 12, p. 81; anormale Geweihe, Rasevig, Semja oczotn, 1909, p. 143; Brunt Eschrei, Faschlb, Wild u. Hund, 15, p. 517; Weibliches Reh mit Hörnern, Ostrn-Sacken, N. Balt. Weidm.-blt., 5, p. 417; Bezahnungspräparate nach Form, Virchow, Arch. Anat. Physiol., Anat. Abt., 1909, p. 281; auf dem Isthmus Karelicus, Brander, F. Jakttidn, Helsingfors, 4, p. 275; pygargus firghanicus, subsp. n., Ferghana-Gebiet, Rasevig, Semja ochotn., 1909, p. 160.

Cervus elaphus, subfossil in Ostseeprovinzen, Doss, Riga, Korr.-blt. Naturf. Ver., 52, p. 88; Geweih, BAUER, Verh. pomm. Forstver., Stettin, 1909, p. 85; Verbreitung in Norwegen, Grieg, Bergen Naturen, 33, p. 65; e. atlanticus, notes & fig., Collett, Bergens Mus. Aarbog, 1909, No. 6, elaphus u. dama, Reste in Griechenland und Balkanlandern, Knotek, Wild u. Hund, 15, p. 581, canadensis in Wisconsin, WARD, Bull. Wis. Nat. Hist. Soc., 6, p. 145; bactrianus, Geweih, RAZEVIG, V., Semja ochotn., Moskva, 1909, p. 209; (†) giganteus, Skeletts im Provinzial-Museum, Hannover, Fritze, Hannover, Jahrb. Prov.-Mus., 1908-1909, p. 95; Riesenhirsch und Riesenalk, Girtanner, St. Gallen, Jahrb. Natw. Ges., 1906, p. 32; (†) (euryceros) messinae, (elaphus) troyontherii spp. n., Pohlig, Berlin, Monatsber. D. geol. Ges., 1909, p. 250; cashmirianus macneilli, subsp. n., Szechuen, LYDEKKER, Proc. Zool. Soc., 1909, p. 590; affinis, note & fig., LYDEKKER, t.c. p. 599; (†) hibernicus and elaphus in Tertiary travertin, Italy, MARTELLI, Riv. ital. paleont., 14, 1908, p. 97; (†) megaceros, Neue Reste aus dem schwäbischen Diluvium, Dietвин, Stuttgart, Jahreshefte Ver. Natk., 65, p. 132; unicolor, Malay form, DAVIES, Bombay J. Nat. Hist. Soc., 19, p. 253.

†Meyaceros hibernicus, general account, Hescheler, Neujahrsbl. Nat. Ges. Zurich, 1909, 3.

Rangifer tarandus, on Queen Charlotte Islands, Keen, Ottawa Nat., 22, p. 260; Anatomie, Physiologie, etc., Makarevskij und Petrunkevič, No. 461; in Niederland, Martin, Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet., 18, p. 422; subfossil in Sweden, Lönnberg, Ark. Zool., 6, No. 3, habits, Lönnberg, No. 428; Zueht im Gouv. Archangelsk, Kercelli, Arch. veterin nauk, 39, p. 817; als Haustier, Zitkov, Selisk. elor. i lisov, 69, p. 211; t. fennicus, subsp. n., Finland, Lönnberg. Ark. Zool., 6, No. 4, p. 10.

TRAGULIDAE.

†Dorcatherium (Hyaemoschus) rogeri, sp. n., Bosnia, Hoffman. Wiss. Mitt. Bosn. Herceg., 11, p. 558.

Tragulus napu, etc., colour-phases Miller, U. S. Nation. Mus. Proc., 37, p. 1; canescens terutue, subsp. n., Terutau I., Malacea, Thomas and Wroughton, Ann. Mag. Nat. Hist.. ser. 8, 4, p. 536.

CAMELIDAE.

†Alticamelus procerus, sp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26, p. 402.

Auchenia lama als Nutztier, STRASS-BERGER, Zool. Beob., 50, p. 22.

Camelus dromedarius, temperaturevariation, CLELAND, Proc. Linn. Soc., N. South Wales, 34, p. 268; †C. alutensis and other Tertiary species; STEFANESCU Anal. Ac. Romana 31 No. 4.

†Oxydactylus campestris, sp. n., Miocene, Nebraska, Cook, Amer. Nat., 43, p. 188.

†Pliauchenia gigas, sp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26, p. 396.

†MERYCOIDODONTIDAE.

† Merychyus relictus, p. 392, projectus, p. 395, spp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26.

† Merycodus necatus sabulonis, subsp. n., Pliocene, Nebraska, Matthew & Cook, Bull. Amer. Mus. Nat. Hist., 26, p. 411.

ANTHRACOTHERIIDAE AND ENTELODONTIDAE.

†Ancodon, notes, Matthew, Bull. Amer. Mus. Nat. Hist., 26, p. 1.

†Entelodontidae, Osteology, dentition and restoration of *Dinohyus*, Peterson, Mem. Carnegie Mus., 4, p. 41.

SUIDAE.

Babyrusa alfurus, brain, BEDDARD. Proc. Zool. Soc., 1909, p. 192.

Hylochoerus gigliolii, sp. n., Up. Congo, Balducci, Firenze, Pubbl. R. Ist. Stud. Super., 1909, p. 1.

Porcula salvania, myology, BEDDARD, Proc. Zool. Soc., 1909, p. 170.

Sus scrofa, carpal glands, Roger, Bull. Soc. Sci. Méd. Ouest, 18, p. 122; Zellteilung im Amnionepithel, Martynov, St. Peterburg, Trav. Soc. nat., 40, 1, p. 87; development of intestinal lymphatics, Heurr, Amer. J. Anat., 9, p. 95; chondrocranium, Mead, t.e. p. 107; development of veins, Smith, t.e. p. 439; prehistoric races of Sweden, Pira. Zool. Jahrb., 1909, Suppl. 10, p. 233; Arcolae auf der Uterusschleimhaut, Martin, Anat. Anz., 34, Ergh., p. 183; cristatus, in rains, Blanford, Bombay, J. Nat. Hist. Soc., 19, p. 254; andersoni, sp. n., Rhio. Arch., Thomas & Wroughton, Ann. Mag. Nat. Hist. ser. 8, 3, p. 441.

†Xenochoerus, g. n., for X. leobensis, sp. n., Miocän, Leoben, Zdarsky, Jahrb. Geol. RehsAnst., 59, p. 264.

B.—Perissodactyla.

Evolution in relative skull-length in extinct forms, OSBORN, Science, 28, p. 749; Geschichte der Einhufer, MATSCHIE, Monatshefte natw. Unterr., 2, p. 296.

EQUIDAE.

Coloration, POCOCK, Ann. Mag. Nat. Hist., ser. 8, 4, p. 404; Fossile Pferde Nordamerikas, ARLDT, Natw. Rdseh. Braunschweig, 24, p. 457.

Equus caballus, cartilaginous degeneration in lateral metapodials of Argentine Horses, de Pas, Buenos Aires, An.

Mus. Nac., ser. 3, 10, p. 149; development, auditory ossicles, COYLE, Edinburgh, Proc. R. Soc., 29, p. 582; Anatomie, SCHMALTZ, No. 667; Zahnalter, Онм, Zs. Veterinärk, 20, р. 356; Seelenleben, Scholtz, Karlsruhe, Verh. natw. Ver. 21, Sitzber. p. 11; Venen des Kopfes, Möckel, No. 508; chestnuts = carpal glands of Pig, ROGER, Bull. Soc. Sci. Med. Ouest, 18, p. 122; Entstehung rassencharakteristischer Massunterschiede an Knochen, besonders am Metacarpus, KRAE-MER, Bern. Mitt. Natf. Ges. 1906, p. vii; Tuba auditiva, Vermeulen, Morph. Jahrb., 40, p. 411; ligaments du bassin, Barski, Przegl. weter., Lwów, 1909, p. 206; articulations à "ressort," Barrier et Legap. LAIN, C. R. Assoc. Anat., 9, p. 66; Gestaltsveränderungen des Pferde-fusses, Schwyter, No. 687, vide etiam, Richter, No. 613; La fourbure du pied, Jubin, No. 358; Vorfahrenreihe, HESCHELER, St. Gallen, Jahrb. Natw. Ges., 1907, p. 29; Sperma, Bernhardt, Berliner tierärztl. Wochenschr., 1908, p. 793; Muskulatur der Speiseröhre, Sosestvenskij, Mess. med. vet. soc. St. Peterburg, 21, p. 782; influence of Mantuan Gonzaga breed on English Thoroughbred, CAVRIANI, Rassegna Contemporanea, 2, fasc. 3, 1909, p. 117; Irish race, SCHARFF, Proc. R. Irish Ac. 27, sect. B. p. 81; blood, WALTHER, Arch. Ges. Physiol. 123 p. 233; Blut verschiedener Rassen Jakimov u. Kohl Archiv. veterin. nauk. St. Peterburg 37 p. 563; African breeds, Kürchнoff, Tropenpflanzer, 11, р. 550, 12, 129; ancestry. p. 392, gracilis (preoccupied by Kaup), nom. n. for Asinus fossilis, Ow., p. 395, with races g. celticus & g. libycus, EWART, Proc. R. Soc., ser. B, 81; Skelet, ZUNGWITZ, No. 847; hermaphroditism, Halász, Állatorv. L., Budapest, 32, p. 102; Bänder der Fesselgelentes, ZIMMERMANN, Allatorv. L., Budapest, 32, p. 321; note on equiferus, Pallas, HILZHEIMER, Natw. Wochenschr., Jena, 24, p. 810; quagga del Museo di Milano, SORDELLI, Atti Soc. ital. sc. nat., 48, p. 35; burchelli pococki, subsp. n., Africa, BRASIL & PENNETIER, Mem. Soc. Linn. Normand., 23, p. 110; wardi, sp. n., for Ward's Zebra of Ewart, RIDGEWAY, Proc. Zool. Soc. 1909 p. 798 (1910); the same animal a menagerie-hybrid, POCOCK, Field, 114, pp. 889, 1099,

RIDGEWAY, op. cit., p. 799; grevyi, zebra & quagga (including burchelli), relationship and variation, p. 547, quagga, specimens of, p. 563, RIDGEWAY, Proc. Zool. Soc., 1909; quagga burchelli & q. wahlbergi, colouring, etc., POOOOK, Proc. Zool. Soc. 1909, p. 415; asinus, four local races, POCOOK, Ann. Mag. Nat. Hist. ser. 8, 4, p. 523; (†) capensis, sp. n., Prehistoric Cape Colony, BROOM, Ann. S. African Mus., 7, p. 282; (†) hollisi, sp. n., B. E. Africa, RIDGEWAY, Proc. Zool. Soc. 1909, p. 588.

†Hipparion sp., Sarmatische Schicht von Sevastopol, Borissjak, Moskva, Dnevnik XII. Sjëzda russ. jest. vrač., 1909-1910, p. 264.

RHINOCEROTIDAE AND TAPIRIDAE.

†Aceratherium, sp. Sarmatische Schicht, Sevastopol, Borissjak, Moskva, Dnevnik XII. Sjězda russ. jest. vrač., 1909–1910, p. 264.

Rhinoceros simus cottoni, fig. & notes, Trouessart, Proc. Zool. Soc., 1909, p. 198; holmwoodi = bicornis, Lydeker, Field, 114, p. 193; (†) pleuroceros, mandible, Olivier, Rev. Sci. Bourb., 22, p. 126; (†) kronstadtensis, sp. n., Pleistocene, Kronstadt, Siebenbürge, Toula, Jahrb. Geol. Rehs. Anst, 59, p. 580; (†) austriacus, Peters, ist nicht zu vereinigen mit simorrensis, Lart., Baoh, Jahrb. Geol. Rehs. Anst., 58, p. 761; (†) sansaniensis, skull & relationship to other Ceratorhini, Roman, Lyon, Ann. Soc. Linn., 56, p. 1.

Tapirus malayanus, absence of pleural cavity, Beddard, Proc. Zool. Soc., 1909, p. 161; americanus, prelacteal dentition, p. 1, spegazzinii sp. n., Tucuman, p. 31, Ameghino, Buenos Aires, An. Mus. Nac., 20.

†Teleoceras minor, sp. n., Miocene, Nebraska, Olcott, Amer. J. Sci., ser. 4, 28, p. 403.

C.-Hyracoidea and †Typotheria.

Hyrax, brain, etc., ВЕДДАВД, Ргос. Zool. Soc. 1909, p. 162; Gehirn, DRÄSEKE, No. 198; ruficeps, Thomas = Procavia burtoni (Gray), ВОМНОТЕ, Proc. Zool. Soc. 1909, p. 797.

†Typotheriidae, etc., description of Santa Cruz forms, Sinclair, Rep. Princeton Exped. Patagonia, 6, p. 1.

D.-Proboscidea.

Evolution and migrations, Lull, Smithsonian Report, 1908, p. 641.

Elephas indicus, cavités séreuses, JAMMES Ct DURAND, Toulouse, Bull. soc. hist. nat., 41, p. xviii; africanus, Fehlen der Pleurahöhle, Goldschmidt, Morph. Jahrb., 40, p. 265; a. peali, car, MITCHELL, Proc. Zool. Soc. 1909, p. 667; (†) primigenius, traditions of among Siberian natives, Jochelson, Amer. Nat. 43, p. 48; Alaskan Mammoth-expeditions of 1907 and 1908, QUACKENBUSH, Bull. Amer. Mus. Nat. Hist., 26, p. 87; Wie hat das Mammut ausgeschen? HILZHEI-MER, Aus d. Natur, 5, p. 455; nouvelle trouvaille en Sibérie, Deniker, Nature, Paris, 37, p. 284; Ausgrabung einer Kadavers, Vollosovič, St. Peterburg, Bull. Ac. sc., 1909, p. 437; specifische Merkmale, Salensky, No. 644; Geschichte der Funde, Histologie der weichen Gewebe Bjalynicki Birula, No. 85; Histologie der Integuments, Magens, Gehirns etc., Salensky, No. 643; in Belgium, Simoens, Bruxelles, Bull. Soc. géol. 22, p. 2, MOURLON, t.c., p. 5; in Darmstadt, HAUPT, Darmstadt, Notizbl. Ver. ErdK., ser. 4, 29, p. 95; '(†) antiquus, in Belgium, MOURLON, Bruxelles, Bull. Soc. géol. 22, p. 327, in France, PONTIER, Lille, Ann. Soc. géol., 36, p. 356.

†Gomphotherium conodon sp. n., Miocene, Nebraska, Cook, Amer. J. Sci., ser. 4, 28, p. 183.

†Moeritherium & Palæomastodon, habits & affinities, Osborn, Nature, 81, p. 139.

†Tetrabelodon dinotheroides, sp. n., (?) Loup Fork Beds, Kansas, Andrews, Geol. Mag., decade 5, 6, p. 347.

SIRENIA.

Manatus, Zunge, GUDERNATSCH, Morph. Jahrb., 40, p. 184; inunguis, skull-development and distribution, Dilg, ibid., 39, p. 83.

†Trachypleurotherium, g. n., Cretaceous, Parà, Dilg, Morph. Jahrb. 39, p. 90.

CETACEA.

Habits, Finwhales & Humpbacks, Andrews, Bull. Amer. Mus. Nat. (n-11091 f)

Hist., 26, p. 213; whaling in Scotland, HALDANE, Ann. Scot. Nat. Hist., 70, p. 65; popular account, vide British Museum; Gchörorgan, Bezold, No. 81; Cctacea of Madagascar, Barbier, Ann. Mus. Col. Marseille, sér. 2, 6, p. 1; in Caen Museum, Caen, Bull. Soc. Linn., sér. 6, 1, p. 157: Miocene of Belluno, PIAZ, Atti Acc. Ven-trent.. scr. 2, b, p. 106; carpus, Turner, Edinburgh, Proc. R. Soc., 29, p. 687; hair-rudiments, Kükenthal, Jenaisch. Zeits., 45, p. 546; Asymmetric des Walschädels, Polinski, Kosmos, Lwów, 34, p. 1124; Zentralnervensystem, ii. Medulla oblongata von Phocaena communis und Balaenoptera rostrata, RAWITZ, Arch. mikr. Anat., Boen, 73, p. 306; ancestral Whales, Gilbert, Bull. Soc. Cal. Acad. Sci., 7, p. 20; Schutz den Walen, Sarasin, Zool. Anz., Leipzig, 35, p. 216.

Balana glacialis, structure and capture, Collett, Proc. Zool. Soc., 1909, p. 81.

Delphinapterus leucas, habits and dentition, True, Smithson. Miscell. Coll., 52. p. 325; skelctt, Braun, Königsberg, Schr. physik. Ges., 49, p. 409.

Delphinus delphis & Tursiops tursio compared and figured, KÜKENTHAL, Jenaisch. Zeits., 45 p. 560, pls. xliv-xlvi.

Eubalana glacialis notes, Andrews Bull. Amer. Mus. Nat. Hist. 26, p. 273.

†Eurhinodelphis cochetcuxi, skeleton, Abel, Wien, Sitzber. k. Akad. Wiss. 29, p. 241.

Globicephalus melas del Museo di Napoli, Police, Napoli, Ann. Mus. Zool., scr. 2, 3, No. 8 p. 1.

Megaptera longimana, hunting in Natal Waters, Bell-Marley, Zoologist, scr. 4, 12, p. 54; bööps, malformed foctus, Guldberg, Kristiania, Skr. Vid. Selsk. 1908, No. 12.

Mesoplodon bidens, skeleton, TURNER, Edinburgh, Proc. R. Soc., 29, p. 687; on French coast, Anthony, Paris, C. R. Acad. sci., 149 p. 461; Bul. Muséum, Paris, 1909, p. 405; bidens et seychellensis, Brasil, C. R. Soc. biol., 67, pp. 479 & 656, Anthony, t.c. p. 536.

Orcinus orca, on New Jersey coast, True, Science, New York, N.Y., ser. 2, 29, 1909, (790-791). †Plesiocetus and Squalodon in Danish Tertiary, Winge, Kjöbenhavn, Nath. Medd., 1909, p. 1.

†Proinia, g. n., for P. patagonica, sp. n., Tertiary, Patagonia, TRUE, Smithson. Miscell. Coll. 52, p. 441.

†Prosqualodon australis, additional remains, TRUE, Smithson. Miscell, Coll., 52, p. 447.

†Saurodclphis argentinus, skull, Abel, Wien, Sitzber. k. Akad. Wiss., 98, p. 256.

Sotalia borneënsis, colour, Lydekker, Proc. Zool. Soc., 1909, p. 883.

Tursiops tursio, an der livländischen Küste, Grevé, N. Balt. Weidm.-blt., Riga, 5, p. 375.

†Ziphiodelphis, g. n. (no sp. named), Miocene, Belluno, Piaz, Atti Acc. Ven.-trent., ser. 2, 5, p. 108.

EDENTATA.

Classification, Lane, Univ. Oklahoma Research Bull., No. 2.

Bradypodidae, nourriture, Méné-GAUX, Bull. Muséum, Paris, 1908, p. 337; Paresseux, DEYROLLE, Naturaliste, Paris, 31, p. 105; biologie des Paresseux, Ménégaux, Rev. sci., Paris, sér. 5, 11, p. 523.

Bradypus, osteology & habits, Méné-GAUX, Arch. Zool. exper. ser. 5, 1, p. 277; torquatus, distinctive characters, Anthony, Paris, Bul. soc. zool., 33, p. 162, Ann. Sci. Nat., Zool., ser. 9, 9, p. 157; squelette, membre postérieur, Méněgaux, Paris, C. R. Acad. sci., 148, p. 797.

Hemibradypus mareyi, Anth., = Bradypus torquatus (III.), MÉNÉGAUX. Paris, Bul. soc. zool. 34, p. 27.

Manis aurita, habitat, Venning, Bombay, J. Nat. Hist. Soc., 19, p. 254.

† Mylodon, sp., Pleistocene, Colorado, Cockerell, Colorado, Univ. Stud., 6, p. 309.

Myrmcophaga, cerebral arteries, Beddard, Proc. Zool. Soc., 1909, p. 683.

Orycteropus, Auge, Franz, Jena, Denkschr. med. Ges., 15, p. 401; Gehirn, ZIEHEN, t.c., p. 477; Halsorgane und Tamandua, BENDER, Jena, Denk-

schr. med. Ges., 15, p. 373; milk-dentition and affinities, Broom, Ann. S. African Mus. 5, p. 381; Jacobson's organ, Broom, Proc. Zool. Soc., 1909, p. 680, postcaval, Beddard, t.c., p. 683.

Tamandua, anatomy, BEDDARD, Proc. Zool. Soc., 1909, p. 683.

Tatu novemcinctum, placentation and young, Lane, Univ. Oklahoma Research Bull., No. 1.

Tutusia, Embryologie Keimblätterinversion und spezifischen Polyembryonie Fernandez, Morph. Jahrb., 39, p. 302.

MARSUPIALIA.

Skull-development, Broom, Proc-Linn. Soc., N. South Wales, 34, p. 195; distribution in S. W. Australia, Short-Ridge, Proc. Zool. Soc., 1909, p. 803.

†Marsupial in Oligocene of Boom, HASSE, Ann. Soc. Zool. et Malac, Belgique 44, p. 77 [probably Cynodictis].

†Bolodon, Owen, = Plagiaulax, Falc., Gidley, U. S. Nation. Mus. Proc. 36, p. 612.

Canolestes, not Diprotodont, DEDERER, Amer. Nat., 43, p. 616.

†Chirox, Cope = Ptilodus, Cope, Gidley, U. S. Nation. Mus. Proc., 36, p. 612.

Dasyurus hallucatus exilis, subsp. n., N. Australia, Thomas, Ann. Mag. Nat. Hist., ser. 8, 3, p. 152.

Dendrolagus, notes, Trouessart, Nature, Paris, 37, p. 391.

†Diprotodon associated in W. Australia with remains of living Kangaroos, WOODWARD, Geol. Mag., decade 5, 6, p. 210.

Marmosa emiliae, sp. n., Para, Thomas, Ann. Mag. Nat. Hist. ser. 8, 3, p. 379.

Peradorcas concinna canescens, subsp. n., N. Australia, Thomas, Ann. Mag. Nat. Hist., ser. 8, 4, p. 198.

Phascolomys latifrons in New South Wales, Kershaw, Victorian Nat., 26, p. 118; gillespiei, sp. n., Queensland, De Vis, Ann. Queensland Mus., No. 5, 1900, p. 14.

†Ptilodus, a Marsupial, dentition and osteology, p. 611, gracilis, sp. n. Tertiary, Montana, Gidley, U. S. Nation. Mus. Proc., 36.

†Sthenurus, sp. n., Pleistocene, W. Australia, GLAUERT, Quart. Journ. Geol. Soc., 65, p. 462.

Suillomeles, g. n., p. 43, for S. hispida, sp. n., Dutch New Guinea, p. 54, Allen & Barbour, Proc. New England Zool. Club. 4. [The authors accept division of Perameles into Isoödon, Perameles & Echymipera.]

ruficollis. vulpeculaTrichosurus subsp. n., Murchison district, SCHWARZ, Australia, also subsp.

MONOTREMATA.

Habits, Bennett, Queensland Nat. 1, p. 105; distribution in S. W. Australia, Shortratoge, Proc. Zool. Soc., 1909, p. 803; Ausrustung, König, Aus d. Natur, 4, p. 689; Plexus lumbosacralis, Frets, Morph. Jahrb., 40, p. 1. Resultate einer zusammenfassenden Bearbeitung der Monotremen, Kowarzik, Zool. Anz., 35, p. 213.

Echidna, Entwicklung der Wirbelt säule, FRETS, Morph. Jahrb., 39, p. 335; hystrix, breeding in Berlin, Heck, Verh. Ges. D. Natf., 80, 2, p.,197; Niere, Zarnik, Würzburg, Sitz. Ber. physik. Ges., 1909, p. 44.

Anaf. Anz., 34, p. 626; v. hypo-Ornithorhynchus anatinus, notes, leucus (Wayn.), Stirling Range, S. W. . Konig, D. Jägerztg, Neudamm, 54,



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Abeille, Paris	Abeille (l'). Sec. Bedel, Paris. [irrégul.]	2 Fr.
Abh. geol. Specialkarte ElsLothr., Strassburg	Abhandlungen zur <mark>geol</mark> ogischen Special- karte von Elsass-Lothringen: Strass- burg. [2–3 H. jährl.]	1 Ger.
Acireale, Rend. Mem. Acc. Zelanti	Rendiconti e Memorie della R. Acca- demia degli Zelanti, Acirculo.	1 It.
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Adelaide, S. Aust., Trans. R. Soc.	Transactions of the Royal Society of S. Australia, Adelaide.	6 S. Aus.
Agric. Exp. Sta., Agricul- tural Coll., Bull.	Agricultural Experimental Station. Agricultural College. Bulletin.	— U.S.
Agric. Exp. Sta., Arizona, Tucson, Bull.	University of Arizona. Arizona Agri- cultural Experiment Station, Tucson. Bulletin.	— U.S.
Agrie. Exp. Sta., California, Berkeley, Bull.	Agricultural Experiment Station of California, Berkeley. Bulletin.	— U.S.
Agric. Exp. Sta., Califor- nia, Berkeley, Cir.	Agricultural Experimental Station. California, Berkeley. Circular.	— U.S.
Agric. Exp. Sta., California, Sacramento, Bull.	University of California Publications, College of Agriculture. Agricultural Experiment Station, Sacramento. Bulletin.	— U.S.
Agric. Exp. Sta., Cali- fornia, Sacramento, Rep.	University of California publications. Report of work of the Agricultural Experiment Station of the University of California, Sacramento.	— U.S.
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Agric. Led., Calcutta	Agricultural Ledger, Calcutta	1 Ind.
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Breslau, Jahresh, Ver. Insektenk.	Jahresheft des Vereins für schlesische Insektenkunde zu Breslau. [jährl.]	— Ger.
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Brisbanc, Proc. R. Soc. Queensland	Proceedings of the Royal Society of Queensland, Brisbane.	— Queens- land.
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Bucuresci, An. Ac. Romane	Analele Academiei Romane, Bucuresci.	- Rou.
Bucuresci, Publ. Adamachi Ac. Romana	Academia Româna. Publicatiunile fondului Vasilie Adamachi, Bucuresci.	Rou.
Budap. Arch. Zool	Archivum zoologicum Redactionis curam gerentibus Cs de Pete dr. de Madarasz et E. Csiki a Laboratoris Zoologico Hungarico editum. Budapest,	— Hun.
Budap. Orv. Ujs., Budapest	Budapesti Orvosi Ujság, Budapest. [Budapester Medizinische Zeitung, Budapest.]	— Hun.
Buenos Aires, Act. Ac. Córdoba	Actas de la Academia nacional de Ciencias en Córdoba, Buenos Aires.	— Argent.
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	23	
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Copenhague, Pub. explor.	Conseil permanent international pour l'exploration de la mer. Publications de circonstance. Copenhague.	— Den.

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Hollandsche Maatschappij der Wetenschappen te Haarlem. Haarlem. 4to. Habana, An. Ac. Cs Anales de la real Academia de ciencias medicas, fisicas y naturales de la Habana. Halifax Nat The Halifax Naturalist and Record of the Scientific Society, Halifax. Halifax, N.S., Proc. and Trans. Nova Scotian Institute of Science, Halifax, N.S. Halle, Abh. natf. Ges Abhandlungen der naturforschenden Gesellschaft zu Halle. Halle. [zwanglos.] Halle, Leopoldina Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. [15 Nrn jährl.] Halle, Nova Acta Leop Nova Acta academiae caesar. Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. [jährl. in zwangl. H.] Hamburg, Abh. natw. Ver. Abhandlungen aus dem Gebiete der Naturwissenschaftlichen Verein in Hamburg. [zwanglos.] Hamburg, Jahrb. wiss. Anst. Verhandlungen des naturwissenschaftlichen Hamburg. [jährl.] Nebst Beiheften. Verhandlungen des Naturforscher, Hamburg. [jährl.] Nebst Beiheften. Verhandlungen des Vereins für naturwissenschaftlichen Vereins in Hamburg. [jährl.] Verhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu vissenschaftliche Unterhaltung zu	Haarlem, Bull. Kolon. Mus.		23 Hol.
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the Scientific Society, Halifax. Halifax, N.S., Proc. and Trans. Nova Scotian Inst. Sci. Halle, Abh. natf. Ges Halle, Leopoldina Halle, Leopoldina Halle, Nova Acta Leop Hamburg, Abh. natw. Ver. Abhandlungen der Naturforscher, Halle, Leipzig. [jährl. in zwangl. H.] Abhandlungen aus dem Gebiete der Naturwissenschaften, hrsg. vom naturwissenschaftlichen Verein in Hamburg. [zwanglos.] Hamburg, Jahrb. wiss. Anst. Hamburg, Verh. natw. Ver. Verhandlungen des naturwissenschaftlichen Vereins in Hamburg. [jährl.] Nebst Beiheften. Verhandlungen des naturwissenschaftlichen Vereins in Hamburg. Sep. Ger. Verhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu Verhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu	Habana, An. Ac. Cs	medicas, fisicas y naturales de la	— Havan
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Gesellschaft zu Halle. Halle. [zwanglos.] Halle, Leopoldina Leopoldina. Amtl. Organ der kais. Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. [15 Nrn jährl.] Halle, Nova Acta Leop Nova Acta academiae caesar. Leopoldinisch-Carolinae naturae curiosorum. Abhandlungen der kaiserl. Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher, Halle. Leipzig. [jährl. in zwangl. H.] Hamburg, Abh. natw. Ver. Hamburg, Jahrb. wiss. Anst. Hamburg, Verh. natw. Ver. Hamburg, Verh. natw. Ver. Hamburg, Verh. natw. Ver. Verhandlungen des naturwissenschaftlichen Vereins in Hamburg-Altona. Hamburg. [jährl.] Hamburg, Verh. Ver. natw. Uerhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu	Trans. Nova Scotian	Nova Scotian Institute of Science,	13 Can.
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dino-Carolinae naturae curiosorum. Abhandlungen der kaiserl. Leopoldinischen Akademie der Naturforscher, Halle. Leipzig. [jährl. in zwangl. H.] Abhandlungen aus dem Gebiete der Naturwissenschaften, hrsg. vom naturwissenschaftlichen Verein in Hamburg. [zwanglos.] Hamburg, Verh. natw. Ver. Hamburg, Verh. natw. Ver. Hamburg, Verh. ver. natw. Unterh. dino-Carolinae naturae curiosorum. Abhandlungen der kaiserl. Leopoldinischen Akademie der Naturforscher, Halle. Leipzig. [jährl. in zwangl. H.] 550 Ger. 553 Ger. 559 Ger. Verhandlungen des naturwissenschaftlichen Vereins in Hamburg-Altona. Hamburg. [jährl.] Verhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu	Halle, Leopoldina	Leopoldinisch-Carolinischen deut- schen Akademie der Naturforscher,	546 Ger.
Naturwissenschaften, hrsg. vom naturwissenschaftlichen Verein in Hamburg. [zwanglos.] Hamburg, Jahrb. wiss. Anst. Jahrbuch der Hamburgischen wissenschaftlichen Anstalten. Hamburg. [jährl.] Nebst Beiheften. Verhandlungen des naturwissenschaftlichen Vereins in Hamburg-Altona. Hamburg. [jährl.] Hamburg, Verh. Ver. natw. Unterh. Verhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu	Halle, Nova Acta Leop	dino-Carolinae naturae curiosorum. Abhandlungen der kaiserl. Leopol- dinisch-Carolinischen deutschen Aka- demie der Naturforscher, Halle.	548 Ger.
Anst. Anst. schaftlichen Anstalten. Hamburg. [jährl.] Nebst Beiheften. Verhandlungen des naturwissenschaftlichen Vereins in Hamburg-Altona. Hamburg, Verh. Ver. natw. Unterh. Verhandlungen des Vereins für naturwissenschaftliche Unterhaltung zu 560 Ger.	Hamburg, Abh. natw. Ver.	Naturwissenschaften, hrsg. vom natur- wissenschaftlichen Verein in Ham-	550 Ger.
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		wissenschaftliche Unterhaltung zu	560 Ger.

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Hannorer, Jahresber. nathist. Ges.	Jahresbericht der naturhistorischen Gesellschaft zu Hannover. Hannover. [mehrjähr.]	563 Ger.
Harvard Psych. Stud., Boston, Mass.	Harvard Psychological Studies. Ed. by Hugo Münsterberg. Boston and New York.	— U.S.
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Hastings and E. Sussex Nat.	Hastings and East Sussex Naturalist, being the Journal of the Hastings and St. Leonard's Natural History Society. Hastings.	— U.K.
Hastings, Mus. Publ	Publications of the Hastings Museum	U.K.
Hastings Nat. v. Hastings and E. Sussex Nat.	· .	
Havre (Le), Bul. soc. géol	Bulletin de la société géologique de Normandie. Le Havre (Seine- Inférieure). [trimestr.]	371 Fr.
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(n-11091 s)		e 27—2

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Honolulu, H.I., Occ. Paprs. Bernice Pauahi Bishop Mus.	Occasional Papers of the Bernice Pauahi Bishop Museum of Polynesian Ethno- logy and Natural History. Honolulu, H.I.	_	U.S.
Honolulu, Proc. Hawaii Ent. Soc.	Proceedings of the Hawaiian Entomo- logical Society. Honolulu.	_	U.S.
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Jahresber. Physiol., Stutt- gart	Jahresbericht über die Fortschritte der Physiologie, hrsg. v. Hermann. Stuttgart. [referirend, jährl.]	640 Ger.
Jahresber. Ver. angew. Bot., Berlin	Jahresbericht der Vereinigung der Vertreter der angewandten Botanik. Berlin. [jährl.]	— Ger.
Jaroslavlĭ, Mém. Soc. Nat.	Труды Ярославскаго естественно- историческаго Общества. Яро- славль [Memoires de la Société des naturalistes de Jaroslav. Jaroslav].	413 Rus.
Jassy, Bul. Soc. Med	Bulletin de la Société des Médecins et Naturalistes de Jassy. Jassy.	— Fr.
Jena, Denkschr. med. Ges.	Denkschriften der medicinisch-natur- wissenschaftlichen Gesellschaft zu Jena. [jährl, in zwangl. H.]	647 Ger.
Jena, Mitt. geogr. Ges	Mittheilungen der geographischen Ge- sellschaft für Thüringen zu Jena. Jena. [jährl.]	648 Ger.
Jenaische Zs. Natw	Jenaische Zeitschrift für Naturwissen- schaft, hrsg. v. d. medicinisch-natur- wissenschaftlichen Gesellschaft zu Jena. Jena. [4 H. jährl.]	650 Ger.
Jestestv. i geogr., Moskva	Естествознаніе и Географія; научно- популярный и педагогическій жур- наль. Москва [Sciences naturelies et géographie; journal scientifique- populaire et pédagogique. Moscou].	67 Rus.
Ježeg. geol. i miner.,Varšava	Ежегодникъ по геологіи и минера- логіи Россіи. Варшава [Annuaire de la géologie et de la minéralogie de Russie. Varsovie].	68 Rus.
Johannesburg, Trans. Geol. Soc. S. Africa	Transactions of the Geological Society of South Africa, Johannesburg.	8 S. Afr.
Johns Hopkins Hosp. Bull. Baltimore, Md.	The Johns Hopkins Hospital Bulletin. Baltimore, Md.	— U.S.
Journ, Forest. Suisse, Berne	Journal forestier suisse. Berne. 8vo.	52 Swi.

Jurjev, Acta Univ	Ученыя Записки Императорскаго Юрьевскаго Университета. Юрьевъ [Acta et commentationes Imperialis Universitatis Jurjevensis (olim Dorpatensis)].	73 Rus.
Jurjev, Arch. Naturk. LEu. Kurl.	Archiv für die Naturkunde Liv-, Esth- und Kurlands. Herausgegeben von der Dorpater Naturforscher-Gesell- schaft. Jurjev. I. Mineralogische Wissenschaften, Chemie, Physik und Erdbeschreibung. II. Biologische Naturkunde.	74 Rus.
Jurjev, Sitzb. Naturf -Ges.	Протоколы Общества естествоиспытателей при Императорскомъ Юрьевскомъ Университетв. Юрьевъ [Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew].	79 Rus.
Jurjev, Zs. Veterin. mcd	Журналъ научной п практической ветеринарной медицины. Юрьевъ [Zeitschrift für wissenschaftliche und praktische Veterinärmedizin. Jurjev].	Rus-
Južnruss. selšsk. choz. gazeta, Charškov	Южно-русская сельско-хозяйственная газега. Изд. Харьковскаго Общества сельскихъ хозяевъ. Харьковъ [Journal d'agriculture de la Russie méridiona:e. Kharkov].	80 Rus.
Kairni Z., Kyoto	Kairni Zasshi (Conchological Magazine). Kyoto.	- Jap.
Karlsruhe, Mitt. Ver. Thier- ärzte	Mittheilungen des Vereins badischer Thierärzte. Karlsruhe. [monatl.]	680 Ger.
Karlsruhe, Verh. natw. Ver.	Vorhandlungen des naturwissenschaft- lichen Vereins in Karlsruhe. Karls- ruhe. [mehrjähr.]	681 Ger.
Kavkazsk. Selĭsk. Choz., Tiftis	Кавказское сельское хозяйство. Тиф- лисъ [Économie rurale du Caucase, Tiflis].	414 Rus.
Kazanĭ, Med. žurn	Казанскій медицинскій журналъ. Казань [Journal médical de Kazan. Kazan].	85 Rus.
Kazanĭ, Prot. Obšč. jest	Протоколы вас'вданій Общества есте- ствоиснытателей при Пмператор- скомъ Казанскомъ Университет'в. Казань [Procès-verbaux des séances de la Société des naturalistes de l'Uni- versité Impériale de Kazan. Kazan.]	415 Rus.
Kazanĭ, Trd. Obšč. jest	Труды Общества естествоиспытате- лей при Императорскомъ Казан- скомъ Упиверситеть. Казань [Travaux de la Société des natura- listes de l'Université Impériale de Kazan].	88 Rus.
Kazanĭ, Trd. Obšč. pčelo- vod.	Труды Казанскаго Общества пчеловодства. Казань [Travaux de la Société d'apiculture de Kazan. Kazan].	— Rus.

Kazanĭ, Zap. Univ	Ученыя Записки Императорскаго Казанскаго Университета. Казань [Mémoires scientifiques de l'Uni- versité Impériale de Kazan].	90 Rus.
Kazanĭ, Zap. veterin. Inst.	Ученыя записки Казанскаго ветери- нарпаго Института. Казань [Mé- moires scientifiques de l'Institut vétérinaire de Kazan. Kazan].	91 Rus.
Kent. Mag., Maidstone	The Kentish Magazine, Maidstone	184 U.K.
Kew Bull., London	Bulletin of Miscellaneous Information, Royal Gardens, Kew.	185 U.K.
Khartoum, Rep. Wellcome Res. Lab.	Report of the Wellcome Research Labora- tories at the Gordon Memorial College, Kliartoum. Department of Education, Sudan Govt.	— Egypt
Kiel, Schr. natw. Ver	Schriften des naturwissenschaftlichen Vereins für Schleswig-Holstein. Kiel. [jährl.]	691 Ger.
Kiev, Izv. politechn. Inst	Изв'ястія Кіевскаго политекническаго Института Императора Алек- сандра II. Kieвъ [Bulletin de l'In- stitut polytechnique de l'Empereur Alexandre II. Kiev].	416 Rus.
Kiev, Izv. Univ	Университетскія изв'ястія. Кіевъ [Bulletin de l'Université Impériale de Kiev].	94 Rus.
Kiev, Zap. Obšč. jest	Записки Кіевскаго Общества есте- ствоиспытателей. Кіевъ [Mémoires de la Société des Naturalistes de Kiev].	100 Rus.
Kilmarnock, Ann. Ramb. Soc.	Kilmarnock Glenfield Ramblers Society Annals.	U.K.
Kingston, Ann. Inst. Jamaica	Annals of the Institute of Jamaica, Kingston.	— W. Ind.
Kingston, J. Inst. Jamaica	Journal of the Institute of Jamaica, Kingston.	- W. Ind.
Kįšinev, Trd. Obšč. jest,	Труды Бессарабскаго Общества естествоисцытателей и любителей естествознанія. Кишиневъ [Travaux de la Société de Bessarabie des naturalistes et des amateurs des sciences naturelles. Kichinev].	— Rus.
Kjöbenhavn, Archiv Pharm. Chem.	Archiv for Pharmaci og Chemi, Kjöben- havn.	25 Den.
Kjöbenhavn, Ber. Biol. Stat.	Beretning fra den danske biologiske Station, Kjöbenhavn.	1 Den.
Kjöbenhavn, Danm. Geol. Unders.	Danmarks geologiske Undersögelser, Kjöbenhavn.	8 Den.
Kjöbenhavn, Ent. Medd	Entomologiske Meddelelser, Kjöben- havn.	6 Den.
Kjöbenhavn, Geogr. Tids	Geografisk Tidsskrift, Kjöbenhavn	7 Den.
K jöbenhavn, Haven	Haven. Medlemsblad for de samvir- kende danske Haveselskaber, redigeret af Carl Mariboe, Kjöbenhavn.	Den.

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Kjöbenhavn, Skrifter Havunders.	Skrifter udgivne af Kommissionen for Havundersögelser, Kjöbenhavn.	— Den.
Kjöbenhavn, Tids. Landbr. Planteavl.	Tidskrift for Landbrugets Planteavl. Hovedorgan for Statens Forsög og Undersögelser verdrörende Markens Avlsplanter, Kjöbenhavn.	Den.
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Klagenfurt, Jahrb. Nat Hist. LdMus. Kärnten	Jahrbuch des Naturhistorischen Landes- Museums von Kärnten. Red. v. Karl Frauscher. Klagenfurt. [jährl.]	146 Aus.
Kleinwelt, Bamberg	Die Kleinwelt. Zeitschrift der Deutschen mikrologischen Gesellschaft zur Ver- breitung wissenschaftlicher Bildung. Hrsg. v. R. H. Francé, Bamberg. [monatl.]	— Ger.
Klin. Jahrb., Jena	Klinisches Jahrbuch, hrsg. v. Flügge u. v. Mering. Jena. [2-4 H. jährl.]	694 Ger.
Klin. Monatsbl. Augen- heilk., Stuttgart	Klinische Monatsblätter für Augenheil- kunde, hrsg. v. Zehender. Stuttgart. [monatl.]	695 Ger.
Knowledge and Sci. News, London	Knowledge and Scientific News, London.	187 U.K.
Königsberg, Schr. physik. Ges.	Schriften der physikalisch-ökonomischen Gesellschaft zu Königsberg. [jährl.]	702 Ger.
Közlem. az összeh. élet. Kórt. Kör., Budapest	Közlemények az összehasonlító életés Kórtan Köréből, Budapest. [Mittheilungen aus dem Gebeite der vergleichenden Physiologie und Pathologie, Budapest.]	Hun.

Kolozsvar, Orvtermt. Ert.	Értesitő az erdélyi Muzeumegylet orvostermészettudományi szakasztályabó!. [Sitzungsberichte der Medizinisch-naturwissenschaftlichen Section des Erdélyi Muzeumegylet (Siebenbürgischer Museumverein).] I. Orvosi szak. [Medizinische Abtheilung.] II. Természettudományi szak. [Naturwissenschaftliche Abtheilung.]	8 Hun.
Kol. Rdsch. Berlin	Koloniale Rundschau. Monatschrift für die Interessen unserer Schutzgebiete und ihrer Bewohner. Hrsg. v. E. Vohsen. Berlin. [monatl.]	— Ger.
Konch. Sek., Gifu	Konchū Sekai (The Insect World). Japanese language. Gifu, Japan.	10 Jap.
KorrBl. D. Ges. Anthr., München	Kerrespondenzblatt der deutschen Gesell- schaft für Anthropologie, Ethno- logie und Urgeschichte. München. [monatl.]	312 Ger.
Kosmos, Lwów	Kosmos, czasopismo Polskiego Towa- rzystwa przyrodników im. Kopernika, red. B. Radziszewski, Lwów. 8vo. [monthly.]	21 Pol.
Kosmos, Stuttgart	Kosmos. Handweiser für Naturfreunde. Hrsg. v. Kosmos. Stuttgart. [monatl.]	— Ger.
Kraków, Bull. Intern. Acad.	Bulletin International de l'Académie des Sciences de Cracovie, classe des Sciences mathématiques et naturelles ; red. J. Rostafiński, Cracovie. 8vo. [monthly.]	11 Pol.
Kraków, Rozpr. Akad. B	Rozprawy Wydziału Matematyczno- Przyrodniczego Akademii Umiejęt- ności, Dział B, nauki biologiczne, Kraków. 8vo. [monthly.]	15 Pol.
Kraków, Spraw. Kom. fizyogr.	Sprawozdanie Komisyi fizyograficznej, obejmujące pogląd na czynności dokonane w ciągu roku, oraz Materyały do fizyografii krajowej, Kraków. 8vo. [annual.]	17 Pol.
Krasnojarsk, Izv. Krasn. otd. Russ. Geogr. Obšč.	Навъстія Красноярскаго подъ-отдъла Восточно-Сибирскаго отдъла Императорскаго Общества. Красноярскъ [Bulletin de la sub-division Krasnoiarsk de la section de la Sibérie orientale de la Société Impériale Russe de Géographie. Krasnoïarsk].	418 Rus.
Krefeld, Mitt. Ver. Natk	Mitteilungen des Vereins für Natur- kunde in Verbindung mit dem Städtischen naturwissenschaftlichen Museum zu Krefeld. [zwang!.]	— Ger.
Kristiania, Forh. Vid. selsk.	Forhandlinger i Videnskabsselskabet i Kristiania.	12 Nor.

Kristiania, Norsk Jaegerf. Tidssk.	Norsk Jaeger og Fiskerforenings Tids- skrift, Kristiania.	15 Nor.
Kristiania, Skr. Vid. selsk.	Skrifter udgivne af Videnskabsselskabet i Kristiania.	17 Nor.
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Kristiania, Tidssk. Skogbr.	Tidsskrift for Skogbrug, Kristiania	21 Nor.
Laibach, Mitt. MusVer. Krain	Mitteilungen des Museal-Vereines für Krain. Red. v. Oskar Gratzy Edlen von Wardengg. Laibach. [2 monatl.]	156 Aus.
Lancet, London	Lancet, London	188 U.K.
Lancs. Nat	The Lancashire Naturalist; a Monthly Journal. Conducted by M. W. W. Western. Darwen, Lancs.	— U.K.
Landw. Jahrb., Berlin	Landwirthschaftliche Jahrbücher, hrsg. v. Thiel. Berlin. [2 monatl.] Nebst Ergänzungs-Bäuden.	723 Ger.
Landw. Jahrb. Schweiz, Bern.	Landwirtschaftliches Jahrbuch der Schweiz. Bern. 8vo.	51 Swi.
Landw. Versuchstat., Ber- lin	Die landwirthschaftlichen Versuchs- Stationen. Organ für naturwissen- schaftliche Forschungen auf dem Gebiete der Landwirthschaft, hrsg. v. Nobbe. Berlin. [2 monatl.]	725 Ger.
${\it Landw.\ Wo chenschr., Halle}$	Landwirthschaftliche Wochenschrift für die Provinz Sachsen. Amtsblatt der Landwirthschaftskammer. Halle. [wöch.]	727 Ger.
Lansing, Rep. Mich. Acad. Sci.	Report of the Michigan Academy of Science, Lansing, Mich.	565 U.S.
Lausanne, Bul. Soc. Sci. Nat.	Bulletin de la Société vaudoise des sciences naturelles. Lausanne. 8vo.	60 Swi.
Lawrence, Kan. Univ. Sci. Bull.	The Kansas University Science Bulletin. Lawrence, Kan. [In- cludes Kansas University Quarterly.]	555 U.S.
Leeds, Trans. Geol. Ass	Transactions of the Leeds Geological Association, Leeds.	194 U.K.
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Leeds, Trans. Yorks. Nat. U.	Transactions of the Yorkshire Naturalists' Union, Leeds. 8vo.	196 U.K.
Le Frelon, Châteauroux	 Le Frelon, journal d'entomologie descriptive, exclusivement consacré à l'étude des coléoptères d'Europe et des pays voisins. Châteauroux. 22.5 cm. 	— Fr.
Leicester, Proc. Lit. Phil. Soc.	Proceedings of the Leicester Literary and Philosophical Society, Leicester.	198 U.K.
Leiden, Notes Mus. Jentink	Notes from the Leyden Museum, edited by F. A. Jentink, Leiden. 8vo.	33 Hol.
Leiden, Samml. Geol. Reichsmus.	Sammlungen des Geologischen Reichsmuseums in Leiden. Leiden. 8vo.	35 Hol.

Leipzig, Abh. Ges. Wiss	Abhandlungen der kgl. sächsischen Ge- sellschaft der Wissenschaften. Leip- zig. [jährl.]	738 Ger.
Leipzig, Ber. Ges. Wiss	Berichte über die Verhandlungen der kgl. sächsischen Gesellschaft der Wissenschaften. Leipzig. [jährl. in zwangl. H.]	739 Ger.
Leipzig, Mitt. Ver. Erdk	Mittheilungen des Vereins für Erdkunde zu Leipzig. Leipzig. [jährl.]	742 Ger.
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Lěsoprom. věst., St. Peter- burg	Лѣсопромышленный вѣстникъ. С Петербургъ [Messager de l'industrie forestière. StPetersbourg].	112 Rus.
Liége, Ann. Soc. géol. Belgique	Annales de la Société géologique de Belgique (Liége). Paraît irrégulière- ment.	110 Bel.
Liége, Mém. Soc. roy. sci	Mémoires de la Société royale des sciences de Liége, Bruxelles.	116 Bel.
Liegnitz, Mitt. Gesch. Ver	Mitteilungen des Geschichts- und Alter- tums-Vereins für die Stadt und das Fürstentum Liegnitz. Liegnitz. [zwangl.]	— Ger.
Liestal, Tätigkeitsb. Natf. Ges.	Tätigkeitsbericht der naturforschenden Gesellschaft Baselland, Liestal.	— Swi.
Lille, Ann. soc. géol	Annales de la société géologique du Nord. Lille (Nord). [bimestr.]	420 Fr.
Lille, Mém. soc. géol	Mémoires de la Société géologique du Nord. Lille (Nord).	<u>—</u> Fr.
Lille, Mém. soc. sci. agricult.	Mémoires de la société des sciences, de l'agriculture et des arts. Lille (Nord). [trimestr.]	427 Fr.
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Lisbonne, Bul. Soc. Port. Sc. Nat.	Bulletin de la Société Portugaise des Sciences naturelles. Lisbonne.	- Port.
Listy Chem., Prag	Listy Chemické. Organ Chemické Společnosti; Spolek Chemicků Českých. Red. J. Mašín, E. Votoček. Praha. [Chemische Blätter. Organ des Vereines Tschechischer Chemiker.] [10 H. jährl.]	175 Aus.
Liverpool, Bull. Mus	Bulletin of the Liverpool Museums, Liverpool. 8vo.	200 U.K.
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Liverpool, Thomson-Yates Lab. Rep.	Thomson-Yates Laboratories Reports, Liverpool.	209 U.K.
Locarno, Boll. Soc. Tic. Sci. Nat.	Bolletino della Società ticinese di Scienze Naturali, Locarno (Impr. A. Pedazzini).	— Swi.
London, Bull. Brit. Ornith.	Bulletin of the British Ornithologists' Club, London. 8vo.	215 U.K.
London, Bull. Imp. Inst	Bulletin of the Imperial Institute. (Issued as a quarterly supplement to the Board of Trade Journal.)	U.K.
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Lübeck, Mitt. geogr. Ges	Mittheilungen der geographischen Gesellschaft und des naturhistorischen Museums in Lübeck. Lübeck. [2-3 H. jährl.]	760 Ger.
Lüneburg, Jahreshefte natw. Ver.	Jahreshefte des naturwissenschaftlichen Vereins für das Fürstenthum Lüne- burg. Lüneburg. [3 jähr.]	763 Ger.
Lund, Univ. Årsskr	Acta Universitatis Lundensis.—Lunds Universitets Års-skrift. Lund. 4to.	14 Swe.
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Luxembourg, Bull. Men. Soc. Nat.	Bulletins Mensuels. Société des Naturalistes luxembourgois. [Luxembourg.]	— Bel.
Luxembourg, Pub. Inst	Publications de l'Institut grand-ducal de Luxembourg. Section des sciences naturelles et mathématiques, Luxem- bourg.	— Lux.
Luzern, Mitt. Natf. Ges	Mitteilungen der naturforschenden Ge- sellschaft in Luzern. Luzern. 8vo.	65 Swi.
Lyon, Ann. soc. agricult	Annales de la société d'agriculture de Lyon (Rhône). [trimestr.]	443 Fr.
Lyon, Ann. soc. linn	Annales de la société linnéenne. Lyon (Rhône). [annuel.]	442 Fr.
Lyon, Bul. soc. anthr	Bulletin de la société d'anthropologie de Lyon, Dir. Paulet, Lyon (Rhône). [annuel.]	445 Fr.
Lyon, Mém. Acad. sci. bel let.	Mémoires de l'Académie des sciences, belles-lettres et arts de Lyon (Rhône). [annuel.]	458 Fr.
M. Orv. Archiv., Budapest	Magyar Orvosi Archivum, Budapest. [Archiv der ungarischen Aerzte, Buda- pest.]	21 Hun.
Macon, Bul. soc. sci. nat	Bulletin de la Société des sciences naturelles de Mâcon (Saone et Loire).	928 Fr.
Madras, Govt. Mus. Bull	Madras Government Museum Bulletin, Madras.	20 Ind.
Madrid, Act. Soc. Esp. Hist. Nat.	Actas de la Sociedad española de Historia natural, Madrid.	- Spain,
Madrid, An. Soc. Esp. Hist. Nat.	Anales de la Sociedad española de Historia natural, Madrid.	— Spain.
Madrid, Bol. Com. Map. Geol.	Boletín de la Comisión del Mapa Geológico, Madrid.	- Spain.
Madrid, Bol. Soc. Esp. Hist. Nat.	Boletín de la Sociedad Española de Historia Natural, Madrid.	- Spain.
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Madrid, Mem. Com. Map. Geol.	Memorias de la Comisión del Mapa Geológico, Madrid.	Spain.
Madrid, Mem. Soc. Esp. Hist. Nat.	Memorias de la Sociedad Española de Historia Natural, Madrid.	- Spain.
Magdeburg, Abh. Mus. Natk.	Museum für Natur- und Heimatkunde zu Magdeburg. Abhandlungen und Berichte hrsg. v. A. Mertens. Magde- burg. [zwanglos.]	- Ger.
Magdeburg, Jahresber. natw. Ver.	Jahresbericht und Abhandlungen des naturwissenschaftlichen Vereins zu Magdeburg. Magdeburg. [zwanglos.]	764 Ger.
Magy. orv. termv. nagygy. évk.	A magyar orvosok és természetvizsgálók nagygyüléseinek évkönyvei.	1 Hun.
Malaria, Leipzig	Malaria, Internationales Archiv für die Ländor deutscher Sprache. Hrsg. v. C. Mense. Leipzig. [3 monatl.]	Ger.
Man. Conch. Philadelphia, Pa.	Manual of Conchology. By H. A. Pilsbry. Philadelphia, Pa.	— U.S.
Manchester, Mem. Lit. Phil. Soc.	Memoirs and Proceedings of the Man- chester Literary and Philosophical Society, Manchester.	302 U.K.
Manchester, Notes Mus	Notes from the Manchester Museum, Manchester.	— U.K.
Manchester, Rep. or Trans. Microsc. Soc.	Report and Transactions of the Man- chester Microscopical Society, Man- chester. 8vo.	312 U.K.
Manchester, Stud. Biol. Owens Coll.	Studies in Biology from the Biological Department of the Owens College, Manchester.	308 U.K.
Manchester, Trans. Geol. Soc.	Transactions of the Manchester Geo- logical and Mining Society, Man- chester.	310 U.K.
Manila, P.I., Dept. Int. Bur. Govt. Lab. [Pub.]	Department of the Interior. Bureau of Government Laboratories. [Publications.] Manila, P.I.	— U.S.
Mannheim, Jahresber. Ver. Natk.	Jahresbericht des Vereins für Natur- kunde zu Mannheim. Mannheim. [mehrjähr.]	768 Ger.
Mans (Le), Bul. soc. agricult. sci.	Bulletin de la société d'agriculture, sciences et arts de la Sarthe. Le Mans (Sarthe). [trimestr.]	464 Fr.
Marburg, Schr. Ges. Natw.	Schriften der Gesellschaft zur Beförde- rung der gesammten Naturwissen- schaften zu Marburg. Marburg. [jährl.]	770 Ger.
Marburg, SitzBer. Ges. Natw.	Sitzungsberichte der Gesellschaft zur Beförderung der gesammten Natur- wissenschaften in Marburg. Mar- burg. [zwanglos.]	771 Ger.
Marcellià, Avelling	Marcellià, Rivista internazionale di Cecidologia, Avellino.	293 It.
Marlborough, Rep. Coll. Nat. Hist. Soc.	Report of the Marlborough College Natural History Society, Marlborough. 8vo.	315 U.K.
All a		tel gas

Marseille, Ann. Soc. sci.	Annales de la Société des sciences naturelles de Provence. Marseille.	.ova , Fr.
Maryland Geol. Surv.,	Maryland Geological Survey, Baltimore.	219 U.S.
Mater faun. flor. Ross., Moskva	Матеріалы къ познанію фауны и флоры Россійской Имперіи. Москва [Matériaux concernant l'étude de la faune et de la flore de l'Empire de Russie. Moscou].	115 Rus.
Mater. geol. Kavkaza, Tiflis.	Матеріалы по геологін Кавказа. Тифлисъ [Matériaux pour la géologie du Caucase. Tiflis].	·116 Rus
Mater. geol. Ross., St. Peterburg	Матеріалы для геологіи Россіи. С Петербургъ [Matériaux pour la géo- logie de la Russie. StPétersbourg].	117 Rus.
Mathnatw. Ber. Ungarn, Leipzig	Mathematische und naturwissenschaft- liche Berichte aus Ungarn. [jährl.]	tivit con
Mathnatw. Ungarn, Leip- zig	Mathematische und naturwissenschaft- liche Berichte aus Ungarn. Leipzig.	- Ger.
Math. Termt. Ert., Buda-	Mathematikai és Természettudományi Értesitő, Budapest. [Mathematischer und naturwissenschaft- licher Anzeiger, Budapest.]	- 11 Hun _e (*
Math. Termt. Közlem., Budapest	Közlemények, Budapest.	12. Hunag
Alasti, and the second of the second	[Mathematische u. naturwissenschaft- liche Mittheilungen, Budapest.]	Maria de 1948.
Med. Klinik, Berlin [u. Wien]	für praktische Arzte. Hrsg. v. Th. Axenfeld etc. Berlin fu. Wienl.	Ger.
Mednatw. Arch., Berlin	Medizinisch - naturwissenschaftliches Archiv. Zeitschrift für die gemeinsamen Forschungsergebnisse der klinischen Medizin und ihrer gesamten Nach- bargebiete. Hrsg. v. F. Henke etc. Berlin. [zwangl.]	— Ger.
Medan, Meded. Deli-Proef- stat.	Medan, Mededeelingen Deli-Proefstation,	Hol.
Medd. Geogr. Fören. Finl., Helsingfors	Meddelanden af Geografiska Föreningen i Finland. Helsingfors. 8vo.	21 Fin.
Meded. Vissch., Helder	Mededeelingen over Visscherij uitge- geven door Dr. P. P. C. Hoek, Helder. 8vo.	37, Holy
Media, Pa., Proc. Delaware Co. Inst. Sci.	Proceedings of the Delaware County Institute of Science, Media, Pa.	— v.s.
Medyc., Warszawa	Medycyna, red. Sadowski, Warszawa. 8vo. [weekly.]	25 Pol.
Meereskunde Berlin	Meereskunde. Samulung volkstümlicher Vorträge zum Verständnis der natio- nalen Bedeutung von Meer und See- wesen. Berlin. [monatl.]	— Ger. W. , cant of Ance
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Meissen, Mitt. Isis	Naturwissenschaftliche Gesellschaft "Isis" in Meissen. Mitteilungen aus den Sitzungen des Vereinsjahres. [jährl.]	— Ger.
Melbourne, Proc. R. Soc. Vict.	Proceedings of the Royal Society of Victoria. Melbourne.	9 Vict.
Melbourne, Trans. R. Soc. Vict.	Transactions of the Royal Society of Victoria, Melbourne.	- Viet.
Mem. Geol. Surv. Ind., Calcutta	Memoirs of the Geological Survey of India, Calcutta.	22 Ind.
Mem. Geol. Surv. U. K., London	Memoirs of the Geological Survey of the United Kingdom, London, Glas- gow, etc.	327 U.K.
Mem. Ind. Mus., Calcutta	Memoirs of the Indian Museum. Calcutta.	— Ind.
Mém. Mus. Belgique, Bruxelles	Royal d'histoire naturelle de Belgique, Bruxelles.	— Bel.
Mem. Mus. Goeldi, Pará	Memorias do Museu Goeldi (Museu paraense) de historia natural e ethnographia, Pará.	— Brazil.
Mende, Bul. soc. agricult	Bulletin de la société d'agriculture, industrie, sciences et arts du départé- ment de la Lozère, Dir. A. Monteils. Mende (Lozère).	487 Fr.
Meriden, Conn., Trans. Sci. Ass.	Transactions of the Meriden Scientific Association, Meriden, Conn.	226 U.S.
Mess. méd. vétérin. soc., Et. Peterburg	Bhстникъ общественной ветеринаріи. CIlетербургъ [Messager de Médecine vétérinaire sociale. StPétersbourg].	— Rus.
Met. Zs., Braunschweig	Meteorologische Zeitschrift. Hrsg. im Auftrage der k. k. österreichischen Gesellschaft für Meteorologie und der Deutschen meteorologischen Gesell- schaft. Red. v. J. Hahn und G. Hell- mann. Braunschweig. [monatl.]	Ger.
Metz, Bul. soc. hist. nat	Bulletin de la société d'histoire naturelle de Metz. Metz. [unbestimmt.]	— Ger.
Mexico, Bol. Inst. Geol	Boletín del Instituto Geológico de Mexico.	— Mex.
Mexico, Mem. Soc. Ant. Alzate	Memorias de la Sociedad Cientifica "Antonio Alzate." Mexico. 8vo.	— Mex.
Michigan, Rep. Geol. Surv., Lansing	Reports of the Michigan Geological Survey, Lansing.	230 U.S.
Microgr. prépar., Paris	Micrographe (le) préparateur. Dir. Tempère. Paris. [bimestr.]	493 Fr.
Mikrokosmos, Stuttgart	Mikrokosmos. Zeitschrift zur Förderung wissenschaftlicher Bildung hrsg. v. d. Deutschen mikrologischen Gesellschaft. Stuttgart. [Hefte jährl.]	— Ger.
Milano, Atti Soc. ital. sc. nat.	Atti della Società italiana di scienze naturali, e del museo civico di Storia naturale, Milano.	102 It.

Milano, Mem. Ist. lomb	Memorie dell' Istituto lombardo di scienze e lettere, Milano.	101 It.
Milano, Mem. Soc. ital. sc. nat.	Memorie della Società italiana di scienze naturali, Milano.	95 It.
Milano, Rend. 1st. lomb	Rendiconti dell' Istituto lombardo di scienze e lettere, Milano.	106 It.
Milwaukee, Bull. Wis. Nat. Hist. Soc.	Bulletin of the Wisconsin Natural History Society, Milwaukee.	235 U.S.
Minneapolis, Bull. Minn. Acad. Nat. Sci.	Bulletin of the Minnesota Academy of . Natural Sciences, Minneapolis.	247 U.S.
Minneapolis, Occ. Paprs. Minn. Acad. Nat. Sci.	Occasional Papers of the Minnesota Academy of Natural Sciences, Minneapolis.	249 U.S.
Minnesota Bull. Geol. Surv., St. Paul	Bulletin of the Minnesota Geological and Natural History Survey, St. Paul.	251 U.S.
Minnesota Geol. Nat. Hist. Surv. Rep., St. Paul	The Geological and Natural History Survey of Minnesota. The Geology of Minnesota. Final Report. St. Paul, Minn.	154 U.S.
Misc. ent., Narbonne	Miscellanea entomologica. Revue ento- mologique internationale (édition française). Narbonne (E. Barthe, édit.). [mensuel.]	— Fr.
Missoula, Bull. Univ. Mont.	Bulletin University of Montana. Missoula, Mont.	552 U.S.
Missouri Rep. Geol., Jefferson City	Biennial Report of the State Geologist, Jefferson City, Mo.	259 U.S.
Mitt. D. Schutzgeb., Berlin	Mittheilungen von Forschungsreisenden und Gelehrten aus den deutschen Schutzgebieten. Wissenschaftliche Beihefte zum deutschen Kolonial- blatt, hrsg. v. Danckelmann. Berlin. [‡ jährl.]	803 Ger.
Mitt. D. Weinbauver., Mainz	Mitteilungen des deutschen Weinbau- Vereins. Mainz. [monatl.]	— Ger.
Mitt. Gesch. Med., Hamburg	Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften. Hrsg. unter Red. v. W. A. Kahlbaum, M. Neuburg, K. Sudhoff. [‡ jährl.]	— Ger.
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Mitt. philomath. Ges., Strassburg	Mitteilungen der philomatischen Ge- sellschaft in Elsass-Lothringen. [zwangl.]	— Ger.
Mitt. Weinbau, Geisenheim	Mittheilungen über Weinbau und Keller- wirthschaft, hrsg. v. Goethe. Geisen- heim. [monatl.]	810 Ger.
Mitt. zool. Stat. Neapel, Berlin	Mittheilungen aus der zoologischen Station zu Neapel. Berlin. [‡ jährl.]	811 Ger.
Modena, Atti Soc. nat. mat.	Atti della Società dei naturalisti e mate- matici, Modena.	107 It.

Modena, Mem.	Acc	Memorie della R. Accademia di scienze,	,., 99]t. (3)
Mon. Rev., Lon	don!	Monthly Review, London	332	U.K.
	, Leipzig	Monatsblätter für Post und Telegraphie. Leipzig. [monatl.]	818	Ger.
Monatschr. Berlin	Geburtsh.,	Monatsschrift für Geburtshülfe und Gynäkologie, hrsg. v. Martin u. Saen- ger. Berlin. [monatl.]	A. A.	Ger.
Monatschr. Berlin	Ohrenheilk.,	Monatsschrift für Ohrenheilkunde, hrsg. v. Gruber etc. Berlin. [monatl.]	821	Ger.
	Psychiatrie,	Monatsschrift für Psychiatrie und Neurologie, hrsg. v. Wernicke u. Ziehen. Berlin. [monatl.]		Ger.
Monatshefte l burg	Derm., Ham-	Monatshefte für praktische Dermatologie, red. v. Unna u. Taenzer. Hamburg. [½ monatl.] Nebst Ergänzungsheften.	* 4	Ger.
	gjira yegisti gwella eta	Monatshefte für den naturwissenschaft- lichen Unterrichtaller Schulgattungen, Hrsg. v. B. Landsberg u. B. Schmid. Leipzig. [monatl.]	_	Ger.
Monatshefte Stuttgart	Tierheilk.,	Monatshefte für praktische Tierheil- kunde, hrsg. v. Fröhner u. Kitt. Stuttgart. [monatl.]	828	Ger.
MonHfte M Wien,	a . Podra colore	Moniteur d'horticulture, arboriculture, viticulture, sciences, arts et industries horticoles. Dir. L. Chauré. Paris.	501	Aus.
Monitore zool.	ital., Firenze	[hi-mensuel.] Il Monitore zoologico italiano, l'irenze	109	It.
Mons, Mém. S lettres du II		Mémoires et publications de la Société des sciences, des arts et des lettres du Hainaut (Mons).	1	Bel.
Montan. Rdsch	ı., Wien	Montanistische Rundschau. Wien	_	Aus.
Montbéliard, émul.	Mém. soc.	Mémoires de la société d'émulation de Montbéliard (Doubs). [irrégul.]	510	Fr.
Montpellier, A Acad. sci. l	lém. sec. sci. et.	Mémoires de la section des sciences [de l'] Académie des sciences et lettres de Montpellier (Hérault). [annuel.]	521	Fr.
Montreal, Can	or at a line of the graph of the first of th	The Canadian Record of Science (Organ of the Montreal Natural History Society), Montreal.	18	Can.
Morph. Jahrb	., Leipzig	Morphologisches Jahrbuch, hrsg. v. Gegenbauer. Leipzig. [4 jährl.]	829	Ger.
Moskva, Ann.	Inst. agron.	Извъстія Московскаго сельско- хозяй- ственнаго Института. Москва [An- nales de l'Institut agronomique de Moscoul	133	Rus.

Moskva, Dnev. XII Sjezda russ. jest. vrač.

Moskva, Dnev. otd. icht. Imp. R. Obšč. acclimat.

Moskva, Dnev. zool. otd. obšč. liub. jest.

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Moskva, Dnev. zool. Sada ..

Moskva, Izv. Obšč. liub. jest.

Moskva, Nouv. Mém. Soc. Nat.

Moskva, Trd. kruž. izsi. russ. prir.

Moskva, Trd. sravnitanatom. Inst. Univ.

Moskva, Věst. zool. sada ...

München Abh. Ak. Wiss....

Moskva, Bull. Soc. Nat. ... Bulletin de la Société Impériale des Naturalistes de Moscou.

> Дневникъ XII съвзда русскихъ естествоиспытателей и врачей. Москва 1909-1910 [Journal XII de la conférence des naturalistes et médecins russes 1909-1910. Moscou.]

Дневникъ отдела ихтіологіи Императорскаго Русскаго Общества акклиматизаціи животныхъ и растеній. Mocква [Journal de la section ichthyologique de la Société Impériale Russe d'acclimatation des plantes et des animaux. Moscoul.

Иневникъ воологического отделенія Императорскаго Общества любителей естествознанія, астрономій и этнографін при Имп. Московскомъ Университеть. Москва [Journal de la section Zoologique de la Société Impériale des amateurs des sciences naturelles, d'anthropologie et d'ethnographie. Moscoul.

воологическаго Лневникъ сада. Москва [Messager du Jardin zoologique. Moscoul.

Извъстія Императорскаго Общества любителей естествознанія, антропологіи и этнографіи при Императорскомъ Московскомъ Университетв. Mосква [Bulletin de la Société Impériale des amateurs des sciences naturelles, d'anthropologie et d'ethnographie près l'Université Impériale de Moscoul.

Nouveaux Mémoires de la Société Impériale des Naturalistes de Moscou.

Труды студенческого кружка для изследованія русской природы, состоящаго при Императорскомъ Московскомъ Университеть. Mocква [Travaux du cercle des étudiants pour l'exploration de la nature russe attaché à l'Université Impériale de Moscou. Moscou].

Труды сравнительно-анатомическаго Института Имп. Московскаго Университета. Москва [Travaux de l'Institut de l'anatomie comparée de l'Université Impériale de Moscou. Moscoul.

Вестникъ воологического сада. Москва [Messager du Jardin zoo-logique. Moscou].

Abhandlungen der kgl. bayerischen Akademie der Wissenschaften. München. [jährl. in zwangl. H.]

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München, Ber. biol. Ver- suchstat.	Berichte aus der kgl. bayerischen biolo- gischen Versuchsstation in München. Hrsg. v. B. Hofer. München. [zwangl.]	— Ger.
München, SitzBer. Ak. Wiss.	Sitzungsberichte der kgl. bayerischen Akademie der Wissenschaften zu München. München. [jährl. in zwangl. H.]	839 Ger.
München, SitzBer. Ges. Morph.	Sitzungsberichte der Gesellschaft für Morphologie und Physiologie in München. München. [3 H. jährl.]	840 Ger.
München, Verh. Ornith. Ges.	Verhandlungen der ornithologischen Gesellschaft in Bayern. München. [jährl.] [Fortsetzung von München, Jahresber. Ornith. Ver.]	— Ger.
Münchener med. Wochen- schr.	Münchener medicinische Wochenschrift, red. v. Spatz. München. [wöch.]	847 Ger.
Münster, Jahresber. Prov- Ver. Wiss.	Jahresbericht des westfälischen Provin- zialvereins für Wissenschaft und Kunst. Münster. [jährl.]	850 Ger.
Museumskunde, Berlin	Museumskunde. Zeitschrift für Ver- waltung und Technik öffentlicher und privater Sammlungen. Hrsg. v. K. Koetschau. Berlin. [4 H. jährl.]	— Ger.
Muzeum, Lwów	Muzeum, czasopismo Towarzystwa Nauczycieli Szkół wyższych, red. B. Mańkowski, Lwów. 8vo. [monthly.]	26 Pol.
N. Bahnen, Leipzig	Neue Bahnen. Monatschrift für Haus-, Schul- und Gesellschafts-Erziehung. Zugleich Organ der Freien Vereini- gung für philosophische Paedagogik. Hrsg. unter Mitwirkung namhafter Paedagogen v. H. Scherer. Leip- zig (Emil Behrend).	1345 Ger.
N. Denkschr. Schweiz. Ges. Natw., Zürich	Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Nouveaux Mémoires de la Société helvétique des sciences naturelles. Zürich etc. 4to.	71 Swi.
N. Jahrb. Min., Stuttgart	Neues Jahrbuch für Mineralogie, Geo- logie und Paläontologie, hrsg. v. Bauer. Stuttgart. [2 monatl.] Nebst Beilage-Bänden.	854 Ger.
N. Weltanschaug, Stuttgart	Neue Weltanschauung. Monatschrift für Kulturfortschritt auf naturwissen- schaftlicher Grundlage. Red. v. W. Breitenbach. Stuttgart. [mon.]	— Ger.
Nancy, Bul. soc. sci	Bulletin des séances de la société des sciences de Nancy et de la réunion biologique de Nancy (Meurthe-et- Moselle). [mensuel.]	530 Fr.
Nancy, C. R. Ass. anat	Comptes rendus de l'association des anatomistes. Nancy.	— Fr.

Nantes Bul. soc. sci. or hist. nat.	Bulletin de la société des sciences naturelles de l'Ouest. Nantes (Loire- Inférieure). [trimestr.]	537 Fr.
Napoli, Annuario Museo zool.	Annuario del Museo zoologico della R. Università di Napoli.	294 It.
Napoli, Atti Acc. Pon- taniana	Atti dell' Accademia Pontaniana, Napoli.	111 It.
Napoli, Atti Acc. sc	Atti dell' Accademia delle scienze fische e matematiche, Napoli.	115 It.
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Napoli, Boll. Soc. nat	Bollettino della Società di naturalisti, Napoli.	118 It.
Napoli, Rend. Acc. sc	Rendiconti dell' Accademia delle scienze fisiche e matematiche, Napoli.	120 It.
Naša ochota, St. Peterburg	Hаша охота. СПетербургъ [Notre chasse, St. Pétersbourg].	— Rus.
Naša pticev. ziznĭ, Kišinev	Hama птицеводная жизнь. Кинпиневъ [L'aviculture chez nous. Kišinev].	Rus.
NatCab., Grünberg	Das Naturalien-Cabinet. Grünberg i. Schl. [½ monatl.]	862 Ger.
Nat. Canad., Québec	Naturaliste Canadien Cap Rouge, Chicoutimi, Québec.	22 Can.
Nat. Novit., Berlin	Naturae Novitates. Bibliographie neuer Erscheinungen aller Länder auf dem Gebiete der Naturgeschichte und der exacten Wissenschaften. Berlin. [Bibliographie, 26 Nrn jährl.]	861 Ger.
Nation. Geog. Mag., New York, N.Y.	National Geographic Magazine, New York, N.Y.	270 U.S.
Natur, Leipzig	Natur. Zeitschrift der Deutschen Naturwissenschaftlichen Gesellschaft. Leipzig. [½ monatlich.]	— Ger.
[·] Natur u. Erziehg, Stuttgart	Natur und Erziehung. Monatschrift zur Verbreitung und Pflege der Natur- wissenschaften in Schule u. Haus, hrsg. v. F. Dannemann und K. Smalian. Stuttgart. [monatl.]	— Ger.
Natur u. Glaube, Leutkirch	Natur und Glaube. Naturwissenschaft- liche Monatsschrift, hrsg. v. Weiss. Leutkirch. [monatl.]	864 Ger.
Natur u. Haus, Stuttgart [früher Dresden]	Natur und Haus. Illustrirte Zeitschrift, hrsg. v. Hesdörffer. Stuttgart. [monatl.]	865 Ger.
Natur u. Kultur, München	Natur u. Kultur. Zeitschrift für Schule und Leben. Hrsg. v. F. H. Völler. München. [1/2 monatl.]	— Ger.
Natur u. Offenb., Münster	Natur und Offenbarung. Organ zur Vermittelung zwischen Naturfor- schung und Glauben für Gebildete aller Stände. Münster. [monatl.]	866 Ger.

Natur u. Schule, Leipzig	Natur und Schule. Zeitschrift für den gesammten naturkundlichen Unterricht aller Schulen. Leipzig und Berlin.	.*.# £
Naturaleza, Mexico	La Naturaleza. Periódico cientifico de la Sociedad mexicana de Historia natural, Mexico.	- Mex.
Naturalist, London	The Naturalist, Leeds and London	336 U.K.
Naturalista sicil., Palermo	Il Naturalista siciliano, Palermo	121 It.
Naturaliste, Paris	Naturaliste (le), revue illustrée des sciences naturelles. Dir. Deyrolle. Paris. [bimensuel.]	541 Fr.
Nature, London	Nature, London	337 U.K.
Nature Notes, London	Nature Notes (Selborne Society's Magazine), London. 8vo.	338 U.K.
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	Časopis pro Pěstováni Mathematiky a Fysiky. Red. Augustin Pánek a vydává Jednota Českých Mathe- matiků. Praha. [Zeitschrift zur Pflege der Mathematik and Physik. Herausgegeben vom Vereine Tschech- ischer Mathematiker]. [5 H. jährl.]	290 Aus.
Prag, JahrBer. Böhm. Ges. Wiss.	Jahresbericht der Kön[iglich] Böh- mischen Gesellschaft der Wissen- schaften. Prag. [jährl.]	294 Aus.
Prag, Rozpr. České Ak. Frant. Jos.	Rozpravy České Akademie Císaře Františka Josefa pro Vědy, Sloves- nost' a Umění. Praha. [Abhandlun- gen der Tschechischen Kaiser Franz Josefs-Akademie für Wissenschaft, Literatur und Kunst]. [zwanglos.]	302 Aus.
Prag, SitzBer. Böhm. Ges. Wiss.	Sitzungsberichte der Königlich Böh- mischen Gesellschaft der Wissen- schaften. Mathematisch-Naturwissen- schaftliche Klasse. Prag. [jährl].	305 Aus.
Prag, SitzBer. Lotos	Sitzungsberichte des Deutschen Natur- wissenschaftlich-Medizinischen Ver- eines für Böhmen "Lotos" in Prag. Prag. [jährl.]	306 Aus.
Prag, Věstn. Ceské Ak. Frant. Jos.	Věstník České Akademie Císaře Fran- tiška Josefa pro Vědy, Slovesnosť a Umění. Praha. [Anzeiger der Tschechischen Kaiser Franz Josefs- Akademie für Wissenschaft, Literatur und Kunst.] [9 H. jährl.]	312 Aus.
Prag, Věstn. České Spol. Náuk	Věstník Královské České Společnosti Náuk. Třída Mathematicko-Přírodo- vědecká. Praha.	313 Aus.
Prakt. Bl. Pflanzenbau, Stuttgart	Praktische Blätter für Pflanzenbau und Pflanzenschutz, hrsg. v. L. Hilte. Stuttgart. [monatl.]	931 Ger.
Prakt. Forstwirt Schweiz, Davos-Platz	Der praktische Forstwirt für die Schweiz. Davos-Platz. 8vo.	75 Swi.
Pretoria, J. S. Afric. Ornith. Union	Journal of the South African Ornithologists' Union, Pretoria.	- S.A.
Preuss. Jahrb., Berlin	Preussische Jahrbücher. Hrsg. v. H. Delbrück. Berlin. [monatlich.]	— Ger.
Prir. i ochota, Moskva	Природа и охота (Прилож. Охот- ничья газета). Москва [Nature et chasse (avec suppl. "Journal cyné- gétique"). Moscou].	200 Rus.
Proc. Amer. Ass. Adv. Sci., Washington, D.C. [formerly Easton, Pa.]	Proceedings of the Amer. Ass. for the Advancement of Science. Washing- ton, D.C.	138 U.S.
Progress. sadov. ogorod., St. Peterburg	Прогрессивное садоводство и огород- ничество СПетербургъ [Horti- culture progressive et industrie potagère. St. Pétersbourg].	— Rus.
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Prometheus, Berlin	Prometheus. Illustrirte Wochenschrift über die Fortschritte in Gewerbe, In- dustrie und Wissenschaft, hrsg. v. Witt. Berlin. [wöch.]	938 Ger.
Prostějov, Věstn. Kl. Přir.	Věstník klubu přirodovědeckího. [Mit- theilungen des naturwissenschaft- lichen Klubs. Prossnitz.]	535 Aus.
Providence, R.I., Bull. Roger Williams Park Mus.	Roger Williams Park Museum. Bulletin. Providence, R.I.	— U.S.
Providence, R.I., Monogr. Roger Williams Park Mus.	Providence, R.I., Monogr. Roger Williams Park Mus.	— U.S.
Przegl. filoz., Warszawa	Przegląd filozoficzny, red. W. Weryho, Warszawa. 8vo. [quarterly.]	42 Pol.
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Psov. i ružejn. ochota, Moskva	Псовая и ружейная охота. Москва [La chasse à courre et à l'arrêt. Moscou].	7204 Rus.
Psych. Rev., New York, N.Y.	Psychological Review, New York, N.Y.	405 U.S.
Psych. Stud., Leipzig	Psychische Studien. Monatliche Zeitschrift, vorzüglich der Untersuchung der wenig gekannten Phänomene des Seelenlebens gewidmet, red. v. Maier. Leipzig. [monatl.]	942 Ger.
Psyche, Boston, Mass	Psyche. (Entomological Club), Boston, Mass.	404 U.S.
Pticevodn. choz., Moskva	Птицеводное хозяйство. Москва [Oisellerie. Moscou].	205 Rus.
Q. J. Microsc. Sci., London	Quarterly Journal of Microscopical Science, London. 8vo.	381 U.K.
Queensland Agric. J., Bris- bane	Queensland Agricultural Journal, Brisbane.	— Qnsl.
Queensl, Nat. Brisbane	The Queensland Naturalist. The Organ of the Field Naturalist's Club and its branches. Brisbane, H. Pole & Co.	— Qnsl.
Raleigh, North Carolina Geol. Surv. Bull.	Bulletin of the North Carolina Geological Survey, Raleigh.	340 U.S.
Reading, Rep. Lit. Sci. Soc.	Report and Proceedings of the Reading Literary and Scientific Society, Reading.	— U.K.
Rec. Ind. Mus., Calcutta	Records of the Indian Museum, Calcutta	— Ind.
Redia, Firenze	Redia, Giornale d'Entomologia, Firenze.	297 It.
Regensburg, Ber. natw. Ver.	Berichte des naturwissenschaftlichen (früher zoologisch-mineralogischen) Vereins zu Regensburg. (Forts. des Correspondenzblattes.) Regensburg. [2 jähr.]	949 Ger.

Reims, Bul. soc. sci. nat	Bulletin de la société d'étude des sciences naturelles de Reims (Marne). [trimestr.]	654 Fr.
Rennes, Bul. soc. sci. méd.	Bulletin de la société scientifique et médicale de l'Ouest. Rennes (Ille-et- Vilaine). [trimestr.]	658 Fr.
Rep. Austr. Ass., Adelaide, N.S.W.	Report of the Australasian Association for the Advancement of science. Adelaide, N.S.W.	— N.S.W.
Rep. Evolution Comm. Roy. Soc., London	Report of the Evolution Committee of the Royal Society. London.	— U.K.
Rep. Norw. fish., Bergen	Report on Norwegian fishery and marine investigations. Bergen. 8vo. [irregul.]	— Nor.
Rés. camp. sci., Monaco	Résultats des campagnes scientifiques de S. A. le Prince de Monaco, Monaco.	- Mon.
Rev. Argent., Buenos Aires	Revista Argentina de Historia natural, Buenos Aires.	— Argent.
Rev. chilena, Valparaiso	Revista chileña de historia natural. Organo del museo de Valparaiso. Valparaiso.	— Chile.
Rev. colon., Paris	Revue coloniale. Ministère des colonies. Paris. [bimestr.]	675 Fr.
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Rev. idées, Paris	Revue (La) des Idées, Paris. Etudes de critique générale, t, l, 1904. 25 cm. [mensuel.]	— Fr.
Rev. Inst. Parag., Asuncion	Revista del Instituto Paraguayo. Asuncion.	— S. Am
Rev. Jard. zool., Buenos Aires	Revista del Jardin Zoológico de Buenos Aires, Buenos Aires.	- Argent.
Rev. Med., São Paulo	Revista Medica de São Paulo (Brazil). São Paulo.	- Brazil.
Rev. Méd. Suisse Rom., Genève	Revue médicale de la Suisse romande. Genève. 8vo.	80 Swi.
Rev. Mus., La Plata, Buenos Aires	Revista del Museo de la Plata, Buenos Aires.	- Argent.
Rev. Mus., São Paulo	Revista do Musai Paulista, publicada por H. von Ihering, São Paulo.	- Brazil.
Rev. russ. ent., St. Peterburg	Русское Энтомологическое Обозрѣніе. CПетербургъ [Revue russe d'Ento- mologie. St. Pétersbourg].	209 Rus.

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Rev. sci. Bourbon., Moulins	Revue scientifique du Bourbonnais et du Centre de la France. Moulins (Allier). [mensuel.]	750 Fr
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Rev. Suisse Zool., Genève	Revue suisse de Zoologie. Annales de la Société zoologique suisse et du Musée d'histoire naturelle de Genève. Genève. 8vo.	83 Swi.
Reykjavik, Andrari	Andvari Timarit hins islenzka thjód- vinafjelags, Reykjavik.	35 Den.
Rhodora, Boston, Mass	Rhodora. Journal of the New England Botanical Club, Boston, Mass.	408 U.S.
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Rio de Janeiro, Bol. Comm. geogr. Minas Geraes	Boletim da Commisão geographica e geologica do Estado de Minas Geraes, Rio de Janeiro.	- Brazil.
Riv. coleottor. ital., Came-	Rivista coleottorologica italiana, Camerino.	299 It.
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Riv. Mens. Pesca, Milano	Rivista mensile di Pesca. Milano	— It.
Rochdale, Trans. Lit. Sci. Soc.	Transactions of the Rochdale Literary, etc., Society, Rochdale. 8vo.	394 U.K.
Rochelle (La), Ann. soc., sci. nat. Acad. bellet.	Annales de la section des sciences naturelles de l'Académie des Belles- lettres, sciences et arts de la Rochelle (Charente-Inférieure). [annuel.]	770 Fr.
Rochester Nat.	Rochester Naturalist, Rochester	395 U.K.
Rochester, N.Y., Proc. Acad. Sci.	Proceedings of the Rochester Academy of Science, Rochester, N.Y.	411 U.S.
Roczn. roln., Krukow	Roczniki nauk rolniczych, red. Stef. Jentys. Krákow. 8vo.	— Pol. (T)
Roma, Atti Acc. Nuovi	Atti dell' Accademia pontificia dei Nuovi Lincei, Roma.	189 It.
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Rostock, SitzBer. natf. Ges.	Sitzungsberichte der naturforschenden Gesellschaft zu Rostock. Anhang zum Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg. Rostock.	1293 Ger.
Rouen, Bul. soc. amis sci.	Bulletin de la société des amis des sciences naturelles de Rouen (Seine- Inférieure). [semestr.]	774 Fr.
Rovart. L., Budapest	Rovartani Lapok, Budapest. [Entomologische Blätter, Budapest.]	14 Hun.
Rugby, Rep. Sch Nat. Hist. Soc.	Report of the Rugby School Natural History Society, Rugby.	397 U.K.
Russ. Geogr. Obšč	Изв'встія Императорскаго русскаго l'eографическаго Общества. СПе- тербургъ [Bulletin de la Société Im- périale russe de Géographie. St l'etersbourg].	261 Rus.
Russ. Ochota, St. Peterburg	Русская охота. СПетербургъ [La chasse russe. St. Petersburg].	— Rus.
Russ. pčelovod. listok, St. Peterburg	Русскій пчеловодный листокъ. С Петербургъ [Journal russe d'apicul- ture. StPétersbourg].	227_Rus.
Russ. sudochod., St. Peterburg	Русское судоходство. СПетербургъ [La navigation russe. StPétersbourg].	- Rus.
Russ. Vrač, St. Peterburg	Русскій Брачъ. СПетербургъ [Le médecin russe. StPétersbourg].	377 Rus.
S. E. Nat., Tunbridge Wells	The South Eastern Naturalist, Tun- bridge Wells. 8vo.	401 U.K.
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Süemann, Leipzig	Der Säemann. Monatsschrift für päda- gogische Reform. Schriftl. C. Götze Leipzig. [monatl.]	— Ger.
St. Dizier, Mém. soc. let.	Mémoires de la société des lettres, sciences, arts, de l'agriculture et de l'industrie de St. Dizier (Haute- Marne). [annuel.]	787 Fr.
St. Gallen, Jahrb. Natw. Ges.	Jahrbuch der St. Gallischen natur- wissenschaftlichen Gesellschaft. St. Gallen. 8vo.	111 Swi.
St. John's, N.B., Bull. Nat. Hist. Soc. New Brunsw.	Bulletin of the Natural History Society of New Brunswick, St. John's, New Brunswick.	29 Can.
St. Louis, Mo., Trans. Acad. Sci.	Transactions of the Academy of Science of St. Louis, St. Louis, Mo.	414 U.S.
St. Peterburg, Ann. Mus. zool.	Ежегодникъ Зоологическаго музея Пыператорской Академіи Наукъ. СПетербургъ [Annuaire du Musée zoologique de l'Académie Impériale des Sciences. StPétersbourg].	248 Rus.
St. Peterburg, Ber. Süss- wasserst. NaturfGes.	Труды првсноводной біологической станціи Императорскаго СПетер-бургскаго Общества естествоиспытателей. СПетербургъ [Berichte der biologischen Süsswasserstation der Kaiserlichen Naturforscher-Gesellschaft zu StPetersburg].	250 Rus.
St. Peterburg, Bull. Ac. Sc.	Изв'ястія Императорской Академіи Наукъ. СПетербургъ [Bulletin de l'Académie Impériale des Sciences de StPétersbourg].	251 Rus.
St. Peterburg, Bull. Com. géolog.	Иавѣстін Геологическаго Комитета. ОПетербургъ [Bulletin du Comité géologique. StPétersbourg].	252 Rus.
St. Peterburg, Bull. labor. biol.	Извѣстія СПетербургской біологи- ческой лабораторій. СПетербургъ [Bulletin du laboratoire biologique de StPétersbourg].	254 Rus.
St. Peterburg, Hor. Soc. Ent. Ross.	Труды русскаго энтомологическаго Общества въ СПетербургъ [Horae Societatis Entomologicae Rossicae. StPétersbourg].	256 Rus.
St. Peterburg, Izv. Lesn. Inst.	Извѣстія СПетербургскаго Лѣснаго Института. СПетербургъ [Bul- letin de l'Institut forestier de St Pétersbourg].	257 Rus.
St. Peterburg, Izr. roenn med. Akad.	Изв'ястія Императорской военно-медицинской Академіи. СПетербургъ [Bulletin de l'Académie Impériale médico-militaire. StPétersbourg].	263 Rus.

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St. Peterburg, Journ. bot	Ботаническій журналь, издаваемый отділеніемь ботаники Императорскаго С. Петербургскаго Общества естествоисцытателей. [Journal botanique, édition de la Section de Botanique de la Société Impériale des naturalistes de StPétersbourg].	— Rus.
St. Peterburg, Mém. Ac. Sc.	Записки Императорской Академіи Наукъ по физико-математическому отдівленію. СПетербургъ [Mémoires de l'Académie Impériale des Sciences. Classe des sciences physiques et mathématiques. StPétersbourg].	266 Rus.
St. Peterburg, Mém. Com. géol.	Труды Геологическаго Комитета. С Петербургъ [Mémoires du Comité géologique. StPétersbourg].	267 Rus.
St. Peterburg, Scripta bot	Ботаническія записки, изданіе Им- ператорскаго СПетербургскаго Университета. СПетербургъ [Scripta botanica"; publiés par l'Uni- versité Impériale de StPétersbourg].	282 Rus.
St. Peterburg, Trav. laborat. zool.	Работы произведенныя въ лабораторіяхъ зоологическаго и зоотомическаго кабинетовъ Императорскаго СПетербургскаго Университета, вып. 4 [Travaux accomplis aux laboratoires de zoologie et zootomie de l'Université Imp. de StPétersbourg].	— Rus.
St. Peterburg, Trav. Mus. géol. Ac. sci.	Труды геологическаго музея имени Петра Великаго при Имп. Акад. Наукъ. СПетербургъ [Travaux du Musée géologique Pierre le Grand près l'Académie Impériale des sciences. StPétersbourg].	— Rus.
St. Peterburg, Trav. Soc. nat.	Труды Императорскаго СПетербургскаго Общества естествоиспытателей. СПетербургъ [Travaux de la Société Impériale des naturalistes de StPétersbourg].	284 Rus.
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	1) по общей географій; 2) статистикь; 3) этнографій. СПетербургъ [Mémoires de la Société Impériale russe de Géographie. En 3 séries: 1) géographie générale; 2) statistique; 3) ethnographie. StPétersbourg].	A ,
St. Peterburg, Žurn. Min. Narodn. Prosvěšě.	Журналъ Министерства народнаго просвъщенія. СПетербургъ [Jour- nal du Ministère de l'instruction publique. StPétersbourg].	295 Rus.
Salatiga, Bull. alg. Proef- stat.	Algemeen proefstation te Salatiga. Bulletin. Malang, A. T. Jahn. 8vo.	— Hol.
Salzburg, Mitt. Ges. Salzb. LdKde	Mitteilungen der Gesellschaft für Salz- burger Landeskunde. Salzburg. [jährl.]	340 Aus.
Sanct Hubertus, Cöthen	Sanct Hubertus. Wöchentliche illust- rirte Zeitschrift für Jagd, Hunde- zucht, Fischerei und Naturkunde, red. v. Scheffler. Cöthen. [wöch.]	977 Ger.
San Francisco, Cal., Occ. Paprs. Acad. Sci.	Occasional Papers of the California Academy of Sciences, San Francisco, Cal.	419 U.S.
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San Francisco, Proc. Cal. Acad. Sci. Zool.	Proceedings of the California Academy of Sciences. Zoology. San Francisco, Cal.	— U.S.
Sangyo Sh., Tokyo	Sangyo Shinpo. [Sericultural Journal.] Tokyo.	— Јар
Santiago, Act. Soc. Chile	Actes de la Société scientifique du Chile, Santiago	— Chile.
Santiago, Ann. Univ. Chile	Anales de la Universitad de Chile, Santiago.	— Chile.
Santiago de Chile, Bol. Mus. Nac.	Boletin de Museo Nacional de Chile	— Chile.
Santiago, Verh. Ver. Chile	Verhandlungen des deutschen wissen- schaftlichen Vereins zu Santiago (Chile). Santiago.	- Chile.
São Paulo, Bol. Comm. geogr.	Boletim da Commisão geographica e geologica da Provincia de S. Paulo.	- Brazil.
Sapporo, Trans; Nat. Hist.	Transactions of the Sapporo Natural History Society. Sapporo.	— Јар.

Sarajevo, Glasn. ZemMuz. Bosn. Herceg.	Glasnik Zemaljskog Muzeja u Bosni i Hercegovini. Urednik K. Hörmann. Sarajevo. [Anzeiger des Landes- nuseums für Bosnien und die Hercegovina.] [‡ jährl.]	341 Aus.
Sarajevo, Wiss. Mitt. Bosn. Herceg.	Wissenschaftliche Mitteilungen aus Bosnien und der Hercegovina. Herausgegeben vom Bosnisch-Herce- govinischen Landes-Museum. Red. v. Moritz Hoernes. Wien. [jährl.]	342 Aus.
Saratov, Sadovod	Саратовскій Садоводъ. Журналъ Саратовскаго Общества Садовод- ства. Саратовъ [L'horticulteur de Saratov. Saratov].	— Rús.
Saratov, Trd. Obšč. jest	Труды Саратовскаго Общества естествоиспытателей и любителей естествознанія. Саратовъ [Travaux de la Société des naturalistes de Saratov].	235 Rus.
Sborn. stud. biolog. Kruž., Odessa	Сборникъ студенческаго біологическаго кружка при Императорскомъ Новороссійскомъ Университеть. Одесса [Recueil du cercle biologique des étudiants de l'Université Impériale d'Odessa. Odessa].	- Rus.
Sborn. stud. Kruž. lšub. prir. Charšk. Univ., Charškov	Сборникъ студенческаго кружка лю- бителей природы при Император- скомъ Харьковскомъ Университетъ Харьковъ [Recueil des travaux du cercle des annateurs d'histoire naturelle à l'Université de Charkov].	— Rus.
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SchweizArch. Thierheilk.,	Ludwig Ritter Lorenz von Liburnau. Wien. [2 jährl.] Schweizer-Archiv für Thierheilkunde.	85 Swi.
Zürich Schweiz: Bienenztg; Aarau	Zürich. 8vo. Schweizerische Bienenzeitung. Aarau. 8vo.	88 Swity

Schweiz. Bl. Gesundhtspfl., Zürich	Schweizerische Blätter für Gesund- heitspflege. Zugleich Korrespondenz- blatt für örtliche Gesundheitsbe- hörden. Zürich. 8vo.	90 Swi.
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Sci. Mem. Med. Ind., Calcutta	Scientific Memoirs by the Medical Officers of the Army of India, Cal- cutta.	27 Ind.
Sci. Progr., London	Science Progress in the Twentieth Century. A quarterly journal of scientific work and thought. Edited by N. H. Alcock and W. G. Freeman. London.	. — U.K.
Science, New York, N.Y	Science, New York, N.Y	429 U.S.
Scranton, Pa., Lackawanna Inst. Sci. Ser.	Scientific Series. Lackawanna Insti- tute of History and Science, Scranton, Pa.	431 U.S.
Selĭsk. chozĭain, St. Peter- burg	Сельскій хозяинъ. СПетербургъ [L'Agronome. StPétersbourg].	237 Rus.
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Semur, Bul. soc. sci. hist. nat.	Bulletin de la société des sciences historiques et naturelles. Semur en Auxois (Côte d'Or). [annuel.]	803 Fr.
Sěvern. choz., St. Peterburg	Oвверное хозяйство. СПетербургъ [Agriculture du Nord. StPéters- bourg].	436 Rus.
's Gravenhage, Ber. Ned. Ent. Ver.	Entomologische Berichten uitgegeven door de Nederlandsche Entomologische Vereeniging.	— Hol.
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Shanghai, J. China R. As. Soc.	Journal of the China Branch of the Royal Asiatic Society, Shanghai.	- China
Shrewsbury, Rec. (or Trans.) Caradoc F. Cl.	Record of the Caradoc and Severn Valley Field Club, Shrewsbury.	403 U.K.

Shrewsbury, Trans. Shropsh. Archæol. Nat. Hist. Soc.	Transactions of the Shropshire Archeological and Natural History Society, Shrewsbury. Svo.	404 U.K.
Siena, Atti Acc. fisiocritici	Atti dell' Accademia dei ysiocritici, Siena.	212 It.
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Skand. Arch. Physiol., Leipzig	Skandinavisches Archiv für Physiologie, hrsg. v. Tigerstedt. Leipzig. [monatl.]	1005 Ger.
Soc. entomol., Steglitz- Berlin	Societas entomologica. Steglitz-Berlin [14 tägig.]	— Ger.
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Spolia Zeylan., Colombo	Spolia Zeylanica. Issued by the Colombo Museum, Ceylon. Colombo.	— Ind.
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Stettiner ent. Ztg	Stettiner entomologische Zeitung, red. v. Dohrn. Stettin, Berlin. [monatl.]	1016 Ger.
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Trencsén m. termt. társ. évk.	Trencsén megyei természettudományi társulat évkönyvei. Trencsén. [Jahr- buch des Trencsiner naturwissen- schaftlichen Vereins, Trencsén.]	17 Hun.
Trieste, Boll. Soc. Adriat. Sci. Nat.	Bollettino della Società Adriatica di Scienze Naturali in Trieste. Red. Antonio Valle. Trieste. [irregol.]	376 Aus.
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Versl. Staat Ned. Zee- vissch., 's Gravenhage	Verslag van den Staat der Nederlandsche Zeevisscherijen, 's Gravenhage. 4to.	56 Hol.
Věst. obšč. gigieny, St. Peterburg	Въстникъ общественной гигіены, су- дебной и практической медицины. ОПетербургъ [Messager d'hygiène publique et de médecine légale et usuelle. StPétersbourg].	343 Rus.
Věst. Obšč. pčelovod., St. Peterburg	Bѣстникъ русскаго общества пчеловодства. СПетербургъ [Messager de la Société russe d'apiculture. StPétersbourg].	344 Rus.
Věst. rybopromyšl., St. Peterburg	Вѣстникъ рыбопромышленности; органъ Русскаго Общества рыбоводства и рыболовства. СПетербургъ [Messager du commerce de poissons; organe de la Société russe de pisciculture et de pêche. StPétersbourg].	354 Rus.
Věst. sacharn. promyšl., Kiev	Вѣстникъ сахарной промышлепности. Кіевъ [Messager de l'industrie du sucre. Kiev].	355 Rus.
Věst. sadov. plodov. ogorodn., St. Peterburg	Bістникъ садоводства, плодоводства и огородничества. СПетербургъ [Messager d'horticulture, de culture fruitière et potagère. StPétersbourg].	— Rus.

Věst. selisk. choz., Moskva Вістникъ сельскаго хозяйства.	356 Rus.
Москва [Messager d'agriculture. Moscoul.	
Věst. vinoděl., St. Peterburg Вѣстникъ винодѣлія. СПетербургъ [Messager de viticulture. St. Péters- bourg].	357 Rus.
Věst. znan., St. Peterburg Вѣстникъ внанія. СПетербургъ [Messager des sciences. StPétersbourg.]	— Rus.
Veterin. vrač, St. Peter- burg Ветеринарный врачъ. СИетер- бургъ[Le vétérinaire. St. Peterburg].	— Rus.
Veterin. žiznĭ, Moskva Ветерипарная Жизнь. Москва [Vie vétérinaire. Moscou].	— Rus.
Vĭatka, Pamĭatn. knižka Vĭatk. gub. Памятная книжка Вятской губерніи. Вятка [Almanach du gouvernement de Vjatka. Vjatka].	— Rus.
Vict. Dept. Mines Bull. Geol. Surv., Melbourne Victoria, Department of Mines. Bulletins of the Geological Survey, Melbourne.	— Vict.
Vict. Dept. Mines Mem. Geol. Surv., Melbourne Victoria, Department of Mines. Memoirs of the Geological Survey of Victoria. Melbourne.	— Vict.
Vict. Dept. Mines Rec. Geol. Surv., Melbourne Victoria, Department of Mines. Records of the Geological Survey of Victoria, Melbourne.	— Vict.
Vict. J. Dept. Agric., Melbourne Journal of the Department of Agriculture, Victoria. Melbourne.	23 Vict.
Vict. Nat., Melbourne The Victorian Naturalist. Melbourne	19 Vict.
Vladimir, Trd. Obšč. lžub. jest. Труды Владимірскаго Общества любителей естествознанія. Владиміръ [Travaux de la Société des amateurs des sciences naturelles de Vladimir, Vladimir].	— Rus.
Vogelfreund, Münster i. W. "Vogelfreund" Monatschrift zum Schutze und zur Erforschung der heimischen Vogelwelt. Münster i. W. [monatl.]	— Ger.
Vogelwelt, Münster i. W "Vogelwelt" Monatschrift zum Schutze und zur Erforschung der heimischen Vogelwelt. Organ des Rhein-Westf-Lipp. Vogelschutz- und Kanarienzüchter-Verbandes. Münster i. W. [monatl.]	— Ger.
Vortr. EntwMech., Leipzig Vorträge und Aufsätze über Entwickelungsmechanik der Organismen. Hrsg. v. W. Roux. Leipzig. [zwangl.]	— Ger.
W. Amer. Sci., San Diego, Cal. West American Scientist, San Diego, Cal.	454 U.S.
Wageningen, Meded. Hoog. Land. Tuin Boschbours. Mededeelingen van de Ryks Hoogere Land- Tuin- en Boschbouwschool en van de daaraan Verbonden Insti- tuten; onder redaktie van het bestuur dezer inrichting. Wagenin- gen. Veenman. 8vo.	— Hol.

Waidmannsheil, Klagen- furt	Waidmannsheil. Illustrierte Zeitschrift für Jagd, Fischerei, Schützen- und Hundewesen. Red. v. Friedrich Leon. Klagenfurt. [½ monatl.]	398 Ger.
Wanderer, Hirschberg	Der Wanderer im Riesengebirge. Organ des Riesengebirgs-Vereins. Hirsch- berg. [monatl.]	1102 Ger.
Wanderer Ostpr., Elbing	Wanderer durch Ost- und Westpreussen Illustrierte Monatschrift zur Pflege heimatlicher Interessen. Bundeszeit- schrift des Verkehrsverbandes für Ost- und Westpreussen. Elbing. [monatl.]	— Ger.
Warszawa, Spraw. Tow. Nauk	Sprawozdania Towarzstwa Naukowego Warszawskiego. [Proceedings of the Scientific Society in Warsaw. Warsaw.]	— Pol.
Warwick, Proc. F. Cl	Proceedings of the Warwickshire Naturalists' and Archæologists' Field Club, Warwick.	424 U.K.
Washington, D.C., Bull. Phil. Soc.	Bulletin of the Philosophical Society of Washington, Washington, D.C.	456 U.S.
Washington, D.C., Bull. U. S. Dept. Agric. Bur. Anim. Indust.	Bulletin, U.S. Department of Agricul- ture. Bureau of Animal Industry, Washington, D.C.	457 U.S.
Washington, D.C., Bull. U. S. Dept. Agric. Div. Biol. Surv.	Bulletin, U. S. Department of Agricul- ture. Division of Biological Survey, Washington, D.C.	459 U.S.
Washington, D.C., Bull. U. S. Dept. Agric. Div. Ent.	Bulletin, U. S. Department of Agricul- ture. Division of Entomology, Wash- ington, D.C.	462 U.S.
Washington, D.C., Bull. U. S. Fish Com.	Bulletin of the U. S. Fish Commission, Washington, D.C.	467a U.S.
Washington, D.C., Carnegie Inst. Pub.	Carnegie Institution Publication. Washington, D.C.	→ U.S.
Washington, D.C., Carnegie Inst. Year Book	Carnegie Institution of Washington. Year Book, Washington, D.C.	468 U.S.
Washington, D.C., Cir. U. S. Dept. Agric. Bur. Anim. Indust.	Circular, U. S. Department of Agricul- ture. Bureau of Animal Industry, Washington, D.C.	469 U.S.
Washington, D.C., Cir. U. S. Dept. Agric. Bur. Ent.	Circular. U. S. Department of Agriculture. Division of Entomology, Washington, D.C.	474 U.S.
Washington, D.C., Dept. Comm. Lab. Bull. Bur. Fish.	Department of Commerce and Labor. Bulletin of the Bureau of Fisheries, Washington, D.C.	— U.S.
Washington, D.C., Dept. Comm. Lab. Bur. Fish. Doc.	Department of Commerce and Labor. Bureau of Fisheries Document. Washington, D.C.	— U.S.
Washington, D.C., Dept. Int. Bull. U. S. Geol. Surv.	Department of the Interior. Bulletin of the United States Geological Survey, Washington, D.C.	516 U.S.
Washington, D.C., Dept. Int. U. S. Geol. Surv. Monogr.	Department of the Interior. U.S. Geological Survey. Monographs, Washington, D.C.	483 U.S.

Washington, D.C. Dept. Int. U. S. Geol. Surv. Prof. Paprs.	Professional Papers. Department of the Interior. U. S. Geological Sur- vey. Washington, D.C.	— U.S.
Washington, D.C., Dept. Int. U. S. Geol. Surv.	Department of the Interior. Annual Report of the U. S. Geological Survey, Washington, D.C.	482 U.S.
Washington, D.C., George Washington Univ. Bull.	The George Washington University Bulletin. Washington, D.C.	— U.S.
Washington, D.C., Mem. Nation. Acad. Sci.	Memoirs of the National Academy of Science, Washington, D.C.	486 U.S.
Washington, D.C., Proc. Acad. Sci.	Proceedings of the Washington Academy of Sciences, Washington, D.C.	486a U.S.
Washington, D.C., Proc. Biol. Soc.	Proceedings of the Biological Society of Washington, Washington, D.C.	488 U.S.
Washington, D.C., Proc. Ent. Soc.	Proceedings of the Entomological Society of Washington, Washington, D.C.	489 U.S.
Washington, D.C., Rep. U. S. Com. Fish.	U.S. Commission of Fish and Fisheries. Report of the Commissioner, Washington, D.C.	493 U.S.
Washington, D.C., Smith- sonian Inst. Cont. Knowl.	Smithsonian Institution. Smithsonian Contributions to Knowledge, Washington, D.C.	496 U.S.
Washington, D.C., Smith- sonian Inst. Misc. Col- lect. Q.	Smithsonian Institution. Smithsonian Miscellaneous Collections, Quarterly, Washington, D.C.	497 U.S.
Washington, D.C., Smith- sonian Inst. Nation. Mus. Bull.	Smithsonian Institution. U.S. National Museum. Bulletin, Washington, D.C.	498 U.S.
Washington, D.C., Smith- sonian Inst. Nation. Mus. Rep.	Smithsonian Institution. U.S. National Museum. Annual Report of the Board of Regents of the Smithsonian Institution, Washington, D.C.	492 U.S.
Washington, D.C., Smith- sonian Inst. Nation. Mus. Sp. Bull.	Smithsonian Institution. U. S. National Museum. Special Bulletin, Washington, D.C.	501 U.S.
Washington, D.C., Smithsonian Inst. Rep.	Smithsonian Institution. Annual Report of the Board of Regents, Washington, D.C.	502 U.S.
Washington, D.C., Smith- sonian Inst. Nation. Mus. Proc.	Smithsonian Institution. U. S. National Museum. Proceedings, Washington, D.C.	500 U.S.
Washington, D.C., Tech. Ser. U. S. Dept. Agric. Bur. Ent.	Technical Series. U. S. Department of Agriculture. Bureau of Entomo- logy, Washington, D.C.	505 U.S.
Washington, D.C., Treas. Dept. Pub. Hith. Mar. Hosp. Serv. Hyg. Lab. Bull.	Health and Marine Hospital Service.	- U.S.
Washington, D.C., U. S. Dept. Agric. Bur. Biol. Surv. N. Amer. Fauna	U. S. Department of Agriculture. Bureau of Biological Survey, North American Fauna, Washington, D.C.	510 U.S.

Washington, D.C., U. S. Dept. Agric. Bur. Biol. Surv. Bull.	U. S. Department of Agriculture. Bureau of Biological Survey. Bulletin. Washington, D.C.	459 U.S.
Washington, D.C., U. S. Dept. Agric. Bur. Ent. Bull.	U. S. Department of Agriculture. Bureau of Entomology. Bulletin. Washington, D.C	462 U.S.
Washington, D.C., U. S. Dept. Agric. Bur. Plant Ind. Bull.	U. S. Department of Agriculture. Bulletin of the Bureau of Plant Industry, Washington, D.C.	540 U.S.
Washington, D.C., U. S. Dept. Agric. Farm. Bull.	U. S. Department of Agriculture. Farmer's Bulletin, Washington, D.C.	508 U.S.
Washington, D.C., U. S. Dept. Agric. Off. Exp. Sta. Rec.	U. S. Department of Agriculture. Office of Experiment Stations. Experiment Station Record, Washington, D.C.	511 U.S.
Washington, D.C., U. S. Dept. Agric. Rep. Bur. Anim. Indust.	U.S. Department of Agriculture. Annual Report of the Bureau of Animal Industry, Washington, D.C.	512 U.S.
Washington, D.C., U. S. Dept. Int. Bull. Geol. Surv.	Department of the Interior. Bulletin of the United States Geological Survey, Washington, D.C.	516 U.S.
Washington, D.C., U. S. Dept. Int. Geol. Atlas Geol. Surv.	Department of the Interior. Geological Atlas of the United States. U.S. Geological Survey, Washington, D.C.	517 U.S.
Washington, D.C., Year- book U. S. Dept. Agric.	Yearbook of the U.S. Department of Agriculture, Washington, D.C.	529 U.S.
Watford, Trans. Herts Nat. Hist. Soc.	Transactions of the Hertferdshire Natural History Society and Field Club, Watford and St. Albans.	148 U.K.
Weidmann, Braunschweig	Der Weidmann. Blätter für Jäger und Jagdfreunde, red. v. Dr. L. Staby. Braunschweig-Charlottenburg. [wöch.]	1106 Ger.
Wellington Coll., Ann. Rep. Nat. Sci. Soc.	Annual Report of the Wellington College Natural Science Society, Wellington. 8vo.	425 U.K.
Wellington, Trans. and Proc. N. Zeal. Inst.	Transactions and Proceedings of the New Zealand Institute, Wellington.	— N.Z.
Wernigerode, Schr. natw. Ver.	Schriften des naturwissenschaftlichen Vereins des Harzes in Wernigerode. Wernigerode. [zwanglos.]	1112 Ger.
West Ind. Bull., Barbados	West Indian Bulletin, the Journal of the Imperial Agricultural Department for the West Indies, Barbados.	— W. In.
West Virginia, Morgan- town, Pub. Geol. Surv.	Publications of the West Virginian Geological Survey, Morgantown.	531 U.S.
Wien, Abh. Geol. Rchs Anst.	Abhandlungen der k. k. Geologischen Reichs-Anstalt. Wien. [zwanglos.]	404 Aus.
Wien, Abh. ZoolBot. Ges	Abhandlungen der k. k. Zoologisch- Botanischen Gesellschaft in Wien. Red. v. Anton Handlirsch. Wien. [zwanglos.]	405 Aus.
Wien, Alm. Ak. Wiss	Almanach der Kaiserlichen Akademie der Wissenschaften, Wien. [jährl.]	407 Aus.

Muen, Anz. Ak. Wiss. Wien, Anz. Ak. Wiss. Wien, Arb. Zool. Inst. Univ. Wien, Arb. Zool. Inst. Univ. Arbeiten aus den Zoologischen-Instituten der Universität Wien und der Zoologischen Station in Triest. Herausgeg. v. Karl Grobben und Berthold Hatschek. Wien. [zwanglos.] Wien, Beitr. Pal. Geol. OstUng. Wien, Beitr. Pal. Geol. OstUng. Wien, Denkschr. Ak. Wiss. Wien, Denkschr. Ak. Wiss. Wien, Jahrb. Geol. Rehs-Anst. Wien, Jahrber. Entom. Ver. Wien, JahrBer. Entom. Ver. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Ost. RehsBd. Vogelk. Wien, Schr. Ver. Verbr. Natw. Kenntn. Mitteilungen des entomologischen vereines zur Verbreitung Naturwissenschaftlichen Kenntnise in Wien. [Mitteilungen des entomologischen vereines zur Verbreitung Naturwissenschaftlichen Kenntnise in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Wien, Schr. Ver. Verbr. Naturwissenschaft. Hoffmuseurel Ger Kaiserlichen Akademie der Universität Wien. Herausgegeben des Naturwissenschaftlichen — Au Vogelk. Wien, Mitt. Ost. RehsBd. Wien, Mitt. Ost. RehsBd. Wien, Mitt. Ost. RehsBd. Wien, Mitt. Ost. RehsBd. Wien, Mitt. Polyzena Mitteilungen des entomologischen Voreins Polyxena. Wien, Inhalteilungen des Paläontitute der Vereins zur Verbeitung Naturwissenschaft. Herrausgegeben mit Unterstützt Wien. Her- Mathematichen. Wien, Mitt. Polyzena Mitteilungen des entomologischen Vereins Polyxena Wien, Inhal			
der Wissenschaftliche Klasse. [27 H. jährl.] Wien, Arb. Zool. Inst. Univ. Wien, Beitr. Pal. Geol. ÖstUng. Wien, Beitr. Pal. Geol. ÖstUng. Wien, Denkschr. Ak. Wiss. Wien, Denkschr. Ak. Wiss. Wien, Jahrb. Geol. Rehs-Anst. Wien, JahrBer. Entom. Ver. Univ. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Ost. RehsBd. Vogelk. Wien, Mitt. Ost. RehsBd. Vogelk. Wien, Mitt. Polyzena Wien, Schr. Ver. Verbr. Natur. Kenntn. Wien, Schr. Ver. Verbr. Natur. Kenntn. Wien, Schr. Ver. Verbr. Naturwissenschaftlicher Kenntnisse in Wien. [Nebentifet]: Populäre Vorträge aus allen Fächern der Maturwissenschaft Henausgegben Maturwissenschaftlicher Kenntnisse in Wien. [Nebentifet]: Populäre Vorträge aus allen Fächern der Maturwissenschaft Henausgegeben 411 Au 2014 Au 2016		Hofmuseums. Redig. von Franz	408 Aus.
tuten der Universität Wien und der Zoologischen Station in Triest. Herausgeg, v. Karl Grobben und Berthold Hatschek. Wien. [zwanglos.] Wien, Beitr. Pal. Geol. OstUng. Beiträge zur Paläontologie und Geologie Osterreich-Ungarns und des Orients. Mitteilungen des Paläontologischen und Geologischen und Geologischen und Geologischen institutes der Universität Wien. Herausgegeben mit Unterstützung des holen Ministeriums für Kultus und Unterricht von Viktor Uhlig und G[ustav] von Arthaber. Wien. [‡ jährl.] Wien, Denkschr. Ak. Wiss. Wien, Jahrb. Geol. Rehs-Anst. Wien, Jahrbe. Geol. Rehs-Anst. Wien, JahrBer. Entom. Ver. Wien, JahrBer. Entom. Ver. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Ost. RehsBd. Vogelk. Wien, Mitt. Ost. RehsBd. Vogelk. Wien, Mitt. Polywena Mitteilungen des Osterreichischen Reichsbundes für Vogelkunde und Vogelschutz in Wien. Wien. [monatl.] Wien, Mitt. Polywena Mitteilungen des entomologischen Vereins Polyxena. Wien. [monatl.] Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben	Wien, Anz. Ak. Wiss	der Wissenschaften. Mathematisch- Naturwissenschaftliche Klasse. [27	409 Aus.
logie Osterreich-Ungarns und des Orients, Mittellungen des Paläontologischen und Geologischen Institutes der Universität Wien. Herausgegeben mit Unterstützung des hohen Ministeriums für Kultus und Unterricht von Viktor Uhlig und G[ustav] von Arthaber. Wien. [½ jährl.] Denkschriften der Kaiserlichen Akademie der Wissenschaftliche Klasse. Wien. [zumindest jährl.] 420 Austalt. Wien, Jahrb. Geol. Rchs-Anst. Wien, [½ jährl.] Jahrbuch der k. k. Geologischen Reichs-Anstalt. Wien. [½ jährl.] Jahrsbericht des Wiener Entomologischen Vereines. Wien. [jährl.] 430 Austalt. Wien, JahrBer. Ver. Adria Jahresbericht des Vereines zur Förderung der naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.] 430 Austalt. Wien, Mitt. Natw. Ver. Univ. Mittellungen des Naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.] — Austalt. Wien, Mitt. Öst. RchsBd. Vogelk. Mittellungen des Osterreichischen Reichsbundes für Vogelkunde und Vogelschutz in Wien. Wien. [monatl.] 447 Austalt. Reinholm Vereins Polyxena Wien. [monatl.] Wien, Mitt. Polyxena Mittellungen des entomologischen Vereins Polyxena Wien. [monatl.] Austurwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben 1471 Austurwissenschaft. Herausgeg	Wien, Arb. Zool. Inst. Univ.	tuten der Universität Wien und der Zoologischen Station in Triest. Herausgeg. v. Karl Grobben und Berthold Hatschek. Wien. [zwang-	411 Aus.
Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Wien. [zumindest jährl.] Wien, Jahrb. Geol. Rehs- Anst. Wien, JahrBer. Entom. Ver. Wien, JahrBer. Ver. Adria Wien, JahrBer. Ver. Adria Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Öst. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Natw. Kenntn. Akademie der Wissenschaftliche Klasse. Wien. [zumindest jährl.] Jahresbericht des Wiener Entomologischen vereines. Wien. [jährl.] Jahresbericht des Vereines zur Förde- rung der naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.] Mitteilungen des Naturwissenschaft- lichen Vereines an der Universität Wien. Jahrlich 8–10 Nummern, Selbstverlag. Witen, Mitt. Öst. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben		logie Österreich-Ungarns und des Orients. Mitteilungen des Paläontologischen und Geologischen Institutes der Universität Wien. Herausgegeben mit Unterstützung des hohen Ministeriums für Kultus und Unterricht von Viktor Uhlig und G[ustav] von Arthaber. Wien.	415 Aus.
Anstalt. Wien. [4 jährl.] Wien, JahrBer. Entom. Ver. Wien, JahrBer. Ver. Adria Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Öst. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Natw. Kenntn. Anstalt. Wien. [4 jährl.] Jahresbericht des Vereines zur Förderung der naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.] Mitteilungen des Naturwissenschaftlichen Vereines an der Universität Wien. Jahrlich 8-10 Nummern, Selbstverlag. Wien, Mitt. Öst. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Natw. Kenntn. Anstalt. Wien. [4 jährl.] Jahresbericht des Wiener Entomologischen rung der naturwissenschaftlichen Erforschung der Adria. Wien. Mitteilungen des Österreichischen Reichsbundes für Vogelkunde und Vogelschutz in Wien. Wien. [monatl.] Wien, Schr. Ver. Verbr. Natw. Kenntn. Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben	Wien, Denkschr. Ak. Wiss.	Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche	420 Aus.
Ver. Wien, JahrBer. Ver. Adria Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Öst. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Natw. Kenntn. Schen Vereines. Wien. [jährl.] Jahresbericht des Vereines zur Förderung der naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.] Mitteilungen des Naturwissenschaftlichen Vereines an der Universität Wien. Jahrlich 8-10 Nummern, Selbstverlag. Witen, Mitt. Öst. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Natur. Kenntn. Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben		Jahrbuch der k.k. Geologischen Reichs- Anstalt. Wien. [‡ jährl.]	425 Aus.
wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Natw. Ver. Univ. Wien, Mitt. Ost. RehsBd. Vogelk. Wien, Mitt. Polyxena Wien, Mitt. Polyxena Wien, Schr. Ver. Verbr. Natw. Kenntn. Wien, Wien. Immediately and wien. Immediately and vogelschutz in Wien. Immediately and vogels			430 Aus.
Univ. lichen Vereines an der Universität Wien. Jahrlich 8-10 Nummern, Selbstverlag. Wien, Mitt. Öst. RchsBd. Nitteilungen des Österreichischen Reichsbundes für Vogelkunde und Vogelschutz in Wien. Wien. [monatl.] Wien, Mitt. Polyxena Mitteilungen des entomologischen Vereins Polyxena. Wien. [monatl.] Wien, Schr. Ver. Verbr. Natur. Kenntn. Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben	Wien, JahrBer. Ver. Adria	rung der naturwissenschaftlichen Erforschung der Adria. Wien.	— Aus.
Vogelk. Reichsbundes für Vogelkunde und Vogelschutz in Wien. Wien. [monatl.] Wien, Mitt. Polyxena Mitteilungen des entomologischen Vereins Polyxena. Wien. [monatl.] Wien, Schr. Ver. Verbr. Natur. Kenntn, Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben	Wien, Mitt. Natw. Ver. Univ.	lichen Vereines an der Universität Wien. Jahrlich 8–10 Nummern,	— Aus.
Wien, Schr. Ver. Verbr. Natu. Kenntn. Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben		Reichsbundes für Vogelkunde und	447 Aus.
Natur. Kenntn. Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben	Wien, Mitt. Polyxena		— Aus.
wissenschaftlicher Kenntnisse in Wien. Wien. [jährl. bezw. in zwanglosen Heften.]		Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Hernusgegeben vom Vereine zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. Wien. [jährl. bezw. in	471 Aus.

Wien, SitzBer. Ak. Wiss	Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Wien. [in 4 Abteilungen, zwanglos.]	472 Aus.
Wien, Verh. Geol. Rchs-Anst.	Verhandlungen der k. k. Geologischen Reichs-Anstalt. Wien. [18 H. jährl.]	477 Aus.
Wien, Verh. ZoolBot. Ges.	Verhandlungen der k. k. Zoologisch- Botanischen Gesellschaft in Wien. Red. v. A[nton] Handlirsch. Wien. [10 H. jährl.]	479 Aus.
Wiesbaden, Jahrb. Ver. Natk.	Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden. [jährl.]	1121 Ger.
Wild u. Hund, Berlin	Wild und Hund, red. v. Stahlecker. Berlin. [wöch.]	1123 Ger.
Wilson Bull., Oberlin, Ohio	Wilson Bulletin. (Wilson Ornithological Club.) Oberlin, Ohio.	347 U.S.
Wilts. Archæol. Mag., Devizes	The Wiltshire Archæological, and Natural History Magazine, Devizes.	426 U.K.
Wisconsin, Madison, Geol. Nat. Hist. Surv. Bull.	Wisconsin Geological and Natural History Survey. Bulletin. Madison.	534 U.S.
Wiss. Meeresunters., Kiel	Wissenschaftliche Meeresuntersuchungen, hrsg. v. d. Commission zur wissenschaftlichen Untersuchung der deutschen Meere in Kiel u. der Biologischen Anstalt auf Helgoland. Kiel. [zwanglos.]	1127 Ger.
Wochenschr. Aquarien- kunde, Braunschweig	Wochenschrift für Aquarien- und Terrarienkunde. Hrsg. v. W. Wolterstorff. Braunschweig. [wöch.]	— Ger.
Wochenschr. Thierheilk., München	Wochenschrift für Thierheilkunde und Viehzucht, hrsg. v. Albrecht und Göring. München. [wöch.]	1136 Ger.
Wood's Holl, Mass., Mar. Biol. Lab. Lect.	Marine Biological Laboratory. Biological Lectures, Wood's Holl, Mass.	536 U.S.
Woolhope, Trans. Nat. F. Cl.	Transactions of the Woolhope Naturalists' Field Club, Hereford. 8vo.	427 U.K.
Worcester, Trans. Nat. Cl.	Worcester. The transactions of the Worcestershire Naturalists' Club. [Established 1847.]	— U.K.
Wr Klin. Rdsch., Wien	Wiener Klinische Rundschau. Organ für die gesamte praktische Heilkunde sowie für die Interessen des ärztlichen Standes. Red. v. F. Obermayer und Karl Kunn. Wien. [wöchentl.]	495 Aus
Wr Klin. Wochschr., Wien	Wiener Klinische Wochenschrift. Organ der k. k. Gesellschaft der Ärzte in Wien. Red. v. Alexander Fraenkel. Wien. [wöchentl.]	496 Aus.
Wr Med. WochSchr., Wien	Wiener Medizinische Wochenschrift. Red. v. Heinrich Adler. Wien. [wöchentl.]	499 Aus.

Wr. Urania, Wien	Urania, illustrierte populärwissenschaft- liche Wochenschrift redigiert von Albert Edlen von Obermayer, Alfred Till und Heinrich Jaschke. Wien. (Konegen.)	— Aus.
Wszechświat, Warszawa	Wszechświat, tygodnik poświęcony naukom przyrodniczym, red. Br. Znatowicz, Warszawa. 4to. [weekly.]	57 Pol.
Würzburg, SitzBer. physik. Ges.	Sitzungsberichte der physikalisch- medicinischen Gesellschaft zu Würz- burg. Würzburg. [jährl. in zwangl. H.]	1140 Ger.
Würzburg, Verh. physik. Ges.	Verhandlungen der physikalisch-medi- cinischen Gesellschaft zu Würzburg. Würzburg. [jährl. in zwangl. H.]	1141 Ger.
Yorks. Proc. Geol. Polyt. Soc.	Proceedings of the Yorkshire Geologi- cal and Polytechnic Society, Halifax.	430 U.K.
York, Rep. Phil. Soc	Annual Report of the Council of the Yorkshire Philosophical Society. York. 8vo.	431 U.K.
Zagreb, Rad. Jugoslav. Ak.	Rad Jugoslavenske akademije znanosti i umjetnosti. [Transactions of the South Slav Academy of Art and Science.] Zagreb.	— Croat.
Zap. lěsn. Suvalsk. okr., Suvalki	Записки лѣсничихъ Сувалскаго О- круга. Сувалки [Mémoires des forestiers du district de Suvalki].	— Rus.
Zap. Obšč. selisk. choz. Južn. Ross., Odessa	Записки Императорскаго общества сельскаго ховяйства Южной Россіи. Одесса [Mémoires de la Société Impériale d'Agronomes de la Russie méridionale. Odessa].	380 Rus.
Zaragoza, Bol. Soc. Arag	Boletín de la Sociedad Aragonesa de Ciencias Naturales, Zaragoza.	— Spain
Zdrowie, Warszawa	Zdrowie, red. W. Janowski, Warszawa. 8vo. [monthly.]	59 Pol.
Zentralbl. inn. Med., Leip- zig	Zentralblatt für innere Medicin, red. v. Unverricht. Leipzig. [wöch.]	280 Ger.
ZentrBl. Forstwes., Wien	Zentralblatt für das gesamte Forstwesen. Organ der k. k. Forstlichen Versuchs- anstalt. Herausgegeben von Josef Friedrich. Wien. [monatl.]	506 Aus.
ZentrBl. Physiol., Wien	Zentralblatt für Physiologie. Unter Mitwirkung der Physiologischen Gesellschaft zu Berlin und der Morphologisch- Physiologischen Gesellschaft zu Wien herausgegeben von Siegmund Fuchs und J. Munk. Wien und Leipzig. [2 wöchentl.]	510 Aus.
Zool. Ann., Würzburg	Zoologische Annalen. Zeitschrift für Geschichte der Zoologie. Hrsg. von Max Braun. Würzburg.	— Ger.
Zool. Anz., Leipzig	Zoologischer Anzeiger, hrsg. v. Carus. Leipzig. [2-3 Nrn monatl.]	1148 Ger.

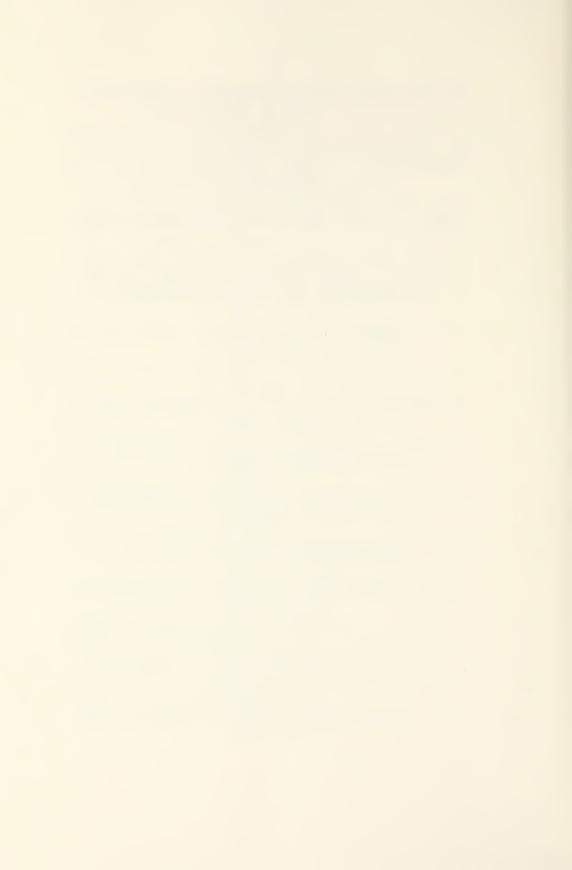
Zool. Beob., Frankfurt a. M.	Zoologischer Beobachter. Organ der zoologischen Gärten Deutschlands. Hrsg. v. d. Neuen zoologischen Ge- sellschaft. Frankfurt a. M. [monatl.]	— Ger.
Zool. Garten, Frankfurt a. M.	Der zoologische Garten, hrsg. v. d. neuen zoologischen Gesellschaft in Frankfurt a. M. Frankfurt a. M. [monatl.]	1150 Ger.
Zool. Jahrb., Jena	Zoologische Jahrbücher, hrsg. v. Spengel. 1. Abth. für Anatomie. 2. Abth. für Systematik. Jena. [Die Abth. 4 H. jährl.] Nebst Supplementen.	1151 Ger.
Zool. Jahresber., Berlin	Zoologischer Jahresbericht, hrsg. v. d. zool. Station zu Neapel. Berlin. [referirend, jährl.]	1152 Ger.
Zool. Rec., London	The Zoological Record, London	435 U.K.
Zool. Zentralbl., Leipzig	Zoologisches Zentralblatt, hrsg. v. Schuberg. Leipzig. [referirend, 26 Nrn jährl.]	1149 Ger.
Zoologica, Stuttgart	Zoologica. Original-Abhandlungen aus dem Gesammtgebiete der Zoologie, hrsg. v. Chun. Stuttgart. [3-4 H. jährl.]	1153 Ger
Zoologist, London	The Zoologist, London. 8vo	434 U.K.
Zs. allg. Physiol., Jena	Zeitschrift für allgemeine Physiologie, hrsg. v. Max Verworn. Jena. [unbestimmt.]	1279 Ger.
Zs. angew. Mikrosk., Leipzig	Zeitschrift für angewandte Mikroskopie und klinische Chemie, hrsg. v. Marpmann. Leipzig. [monatl.]	1157 Ger.
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Zs. Ent., Breslau	Zeitschrift für Entomologie, hrsg. vom Verein für schlesische Insektonkunde zu Breslau. Breslau. [jährl.]	1180 Ger.
Zs. Entwlehre, Stuttgart	Zeitschrift für den Ausbau der Ent- wicklungslehre. Hrsg. v. R. H. Francé. Stuttgart. [jährl 12 Hefte.]	— Сег.
Zs. Ethn., Berlin	Zeitschrift für Ethnologie, red. v. Bartels etc. Berlin. [2 monatl.] Nebst: Nachrichten über deutsche Alterthumskunde.	1181 Ger.
Zs. exper. Path., Berlin	Zeitschrift für experimentelle Pathologie und Therapie. Hrsg. L. Brieger etc. Berlin. [zwanglos.]	— Ger.

### Hilfswissenschaften, hrsg. im Auftrage des Deutschen Fischerei-Vereins von P. Schiemenz und F. Fischer. Berlin. Zeitschrift für Fleisch- und Milchhygiene, red. v. Ostertag. Berlin. [monatl.] Zeitschrift für Forst- und Jagdwesen. Berlin. [monatl.] Zeitschrift für Geburtshülfe und Gynäkologie, hrsg. v. Olshausen u. Holmeier. Stuttgart. [6 H. jahrl.] Zeitschrift für Hygiene und Infektionskrankheiten, hrsg. v. Koch u. Flügge. Leipzig. [8 H. jahrl.] Zeitschrift für systematische Hymenopterologie und Dipterologie, hrsg. v. Konow. Teschendorf bei Stargard. [2 monatl.] Zeitschrift für induktive Abstammungsund Vererbungslehre. Hrsg. v. C. Correns u. a Berlin. [zwangl.] Ceitschrift für Infektionskrankheiten, parasitäre Krankheiten und Hygiene der Haustiere. Hrsg. v. R. Ostertag. Berlin. [zwangl.] Zeitschrift für klnische Medicin, red. v. v. Leyden u. Klemperer. Berlin. Ze. Landw. VersWes., Wien Zeitschrift für das Landwirtschaftliche Versuchswesen in Osterreich. Vom k. Ackerbauministerium subventioniertes Organ für wissenschaftliche Forschung auf dem Gebiete der Landwirtschaft und der landwirtschaftlichen Growerbe. Red. v. E. Meissl etc. Wien, Pest, Leipzig. [monatl.] Zeitschrift für Lehrmittelwesen und pädagogische Literatur. Herausgegeben v. Franz Frisch. Wien. Zeitschrift für Literatur Herausgegeben v. Franz Frisch. Wien. [10 H. jährl.] Zeitschrift für Mineralogie, Geologie und Paläontologie. Hrsg. v. R. Zimmermann. Stuttgart. [monatl.] Zeitschrift für Morphologie und Anthro-			
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Aleurodothrips, Franklin, Ins. 407 Allagogus, Gahan, Ins. 262 Alloionema, Hartlaub, Coel. Allophylopsis, Lamb, Ins. 377 Alteuthella, Scott, Crust. 44 Altonomus, Desbrochers, Ins. Ambrocharis, Sicard, Ins. 273 Amerus, Collinge & Shoebotham, Ins. 428 Amidostomum, Railliet & Henry, Verm. Amirantea, Distant, Ins. 383 Ammodiscoides, Cushman, Prot. 50 Amphibolothrips, Buffa, Ins. 407 Amphimetra, Clurk, Echin. 47 Amphipsylla, Wagner, Ins. 382 Amphiskirra, Broun, Ins. 250 Amphitrochilia, Cossmann, Moll. Ampullariella, Raspail, Moll. 61 Amurus, Attems, Arachn. Myr. Anabolioides, Martynow, Ins. 355 Anacroneuria, Klapálek, Ins. 410 Anacrostichus, Bezzi, Ins. 371 Anactinia, Annandale, Coel. 25 Anactinothrips, Bagnall, Ins. Anaphoidea, Girault, Ins. 300 Anardis, Attems, Arachn. Myr. 51 Anareolaria, Shelford, Ins. 417 Anataxis, Casey, Ins. 237 Anataxis, Casey, Ins. Anchicta, Navás, Ins. Anchistrotos, Brian, Crust. 45 Anchoblatta, Shelford, Ins. Anchobiatta, ioneagus, Ancylotropus, Cameron, Ins. 2 Anderssonia, Strebel, Moll. 76 Andesimyia, Brèthes, Ins. 374 Andiorrhinus, Cognetti, Verm. Angustella, Waagen, Moll. 83

^{*} The total number of names in this index is 1,820, distributed as follows:—Protozoa, 36; Porifera, 9; Coelenterata, 26; Echinodermata, 68; Vermidea, 66; Brachiopoda, 5; Bryozoa, 53; Mollusca, 83; Crustacea, 99; Arachnida, 47; Myriopoda, 66; Insecta, 1138; Prochordata, 2; Pisces, 42; Reptilia and Batrachia, 21; Aves, 23; Mammalia, 33. The total last year was 1,854.

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